

ALL YOU NEED FOR FOOD ANALYSIS

Sample Collection

Sample Preparation

Food Analysis

Microbiology

Lab Essentials

Safety & Apparel



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How to Use this Catalog

The 2014 VWR All You Need for Food Analysis Catalog lists over 5,600 products from our comprehensive portfolio along with information on many services available through VWR. In this catalog you will find navigational aids to help you locate the products you need quickly and easily.

Product Organization

Sections are organized by process steps for easy identification.

Page Headings

Section and subsection listings appear on every page for you to refine your browsing.

ALL YOU NEED FOR FOOD ANALYSIS

INTRODUCTION

Welcome to the VWR All You Need for Food Analysis catalog - your essential portfolio of laboratory, production, and quality assurance products for the ever-growing Food and Beverage industry.

This catalog will save you valuable time searching for the items you routinely use in your work. All of the products you need for everything involving food analysis - from collection and sampling to quality control of the finished product - can be found within, as well as items required for specific tests and research.

VWR – Your one stop shop for chemicals, consumables, equipment and services.

In addition, VWR can provide you with a complete range of safety, personal protection, and waste disposal products. We offer a broad range of technical, validation, and e-business services that can help you optimize your logistic and purchasing services.



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SAMPLE COLLECTION

BAGS

BOTTLES & CAPS

CONTAINERS & BUCKETS

SAMPLING TOOLS

TEMPERATURE & pH MONITORING



VWR® Sterile Sample Bags

These sample bags are ideal for transportation and storage of solids, semisolids, and liquids for environmental and carcass sampling, bio-medical and pharmaceutical research, quality assurance procedures, food industry applications, and clinical and veterinary medicine.

Bags are made of pliant, highly resistant virgin polyethylene sterile tubing with no side seals. They feature a wire closure for an airtight seal, and wide-sealed bottoms for added leakproof protection. To use, tear off perforated top, pull tabs to open bag, fill, grab ends of tape closure and pull shut, twirl bag three or four times to seal, and bend ends of closure inward to lock the seal.

Round wire bags have two wires for closure. Combination bags have one round wire and one flat wire. Flat wire bags have two flat wires. The combination closure provides the strongest, most secure seal. Bags also come with or without puncture-proof safety tabs to eliminate sharp points that can cause bag puncture and abrasion. Bags with white marking area allow for written notation.

Bags comply with EPA, FDA, USDA, and HACCP regulatory and industry requirements.

Note: Do not use with alcoholic substances or where temperature exceeds 100°C (212°F).

Ordering Information: Bags 89085-560 are packaged in a double pouch for cleanroom applications.



Capacity	Thickness	W x H	Cat. No.
Round Wire Bags			
450 mL (15 oz.)	2.5 mil	11.4 x 22.9 cm (4½ x 9")	CA82007-694
650 mL (22 oz.)	3 mil	14 x 22.9 cm (5½ x 9")	CA82007-698
1500 mL (50 oz.)	3 mil	14 x 38.1 cm (5½ x 15")	CA82007-700
1650 mL (55 oz.)	3 mil	17.8 x 30.5 cm (7 x 12")	CA82007-728
Round Wire Bags with White Marking Area			
450 mL (15 oz.)	2.5 mil	11.4 x 22.9 cm (4½ x 9")	CA82007-706
650 mL (22 oz.)	3 mil	14 x 22.9 cm (5½ x 9")	CA82007-708
1650 mL (55 oz.)	3 mil	17.8 x 30.5 cm (7 x 12")	CA82007-726
Round Wire Bags with Safety Tabs			
650 mL (22 oz.)	4 mil	14 x 22.9 cm (5½ x 9")	CA89085-538
2545 mL (86 oz.)	3 mil	17.8 x 38.1 cm (7 x 15")	CA89085-544
Round Wire Bags with Safety Tabs and White Marking Areas			
1650 mL (55 oz.)	4 mil	17.8 x 30.5 cm (7 x 12")	CA89085-550
Combination Wire Bags			
650 mL (22 oz.)	3.5 mil	14 x 22.9 cm (5½ x 9")	CA82007-716
Combination Wire Bags with Safety Tabs			
4000 mL (135 oz.)	4 mil	25.4 x 38.1 cm (10 x 15")	CA83007-560
650 mL (22 oz.)	3 mil	14 x 22.9 cm (5½ x 9")	CA89085-552
1650 mL (55 oz.)	4 mil	17.8 x 30.5 cm (7 x 12")	CA89085-554
Combination Wire Bags with Safety Tabs and White Marking Areas			
4000 mL (135 oz.)	4 mil	25.4 x 38.1 cm (10 x 15")	CA83007-562
650 mL (22 oz.)	3 mil	14 x 22.9 cm (5½ x 9")	CA89085-556
1650 mL (55 oz.)	4 mil	17.8 x 30.5 cm (7 x 12")	CA89085-558
Jumbo Flat Wire Bags			
6750 mL (230oz.)	4 mil	30.5 x 45.7 cm (12 x 18")	CA89000-190
5500 mL (185 oz.)	4 mil	30.5 x 40.6 cm (12 x 16")	CA89085-532

VWR® Sterile Sample Bags with Specimen Sponge

Sterile sample bags are ideal for surface sampling in a wide range of applications. They provide a reliable method for monitoring potentially hazardous environments for the presence of microorganisms as well as foodborne pathogens.

Bags are made of virgin polyethylene tubing with no side seals. They feature a wire closure for an airtight seal, wide-sealed bottoms for added leakproof protection, and a write-on strip. They are easy to use: tear off perforated top, pull tabs to open bag, fill, grab ends of tape closure and pull shut, twirl bag three or four times to seal, and bend ends of closure inward to lock the seal.

Each bag includes a cellulose sponge that measures 3.8Wx7.6Lx1.6Hcm (1½x3x5⁄8") when hydrated. Choose from a biocide-free, dry sponge or a foil-sealed sponge premoistened with a sterile buffer solution. Bags 89085-576 and -578 also include one pair of gloves for surface sampling.

Caution: Do not use with alcoholic substances or where temperature exceeds 100°C (212°F).



Bag Capacity	450 mL (15 oz.)
Bag Dimensions	11.4 x 22.9 cm (4½ x 9")
Bag Thickness	2.5 mil

Description	Cat. No.
Sponge Dry	CA89003-806

Sample Collection

Bags

Whirl-Pak™ Sample Bags, Nasco®

Transparent sample bags are sterile, disposable, and economical. They are constructed of durable polyethylene and provide safe, spill-free use for liquid, semisolid, and solid samples. To use, tear bag on perforation and pull tabs to open. Fill bag, pull wire ends, whirl shut, and lock.

Write on clear bags with a felt-tip marker, or choose bags with a white, write-on strip and use an ordinary ballpoint pen or pencil.

All bags feature unique puncture-proof tabs. The tape on the tab extends past the wire ends, eliminating sharp points that may puncture bags or cause damage to skin or gloves.

Stand-up bags feature a gusset on the bottom that flattens out when the sample is placed inside, allowing the bag to stand up by itself without the need for racks or special holders.



Capacity	Thickness	W x L	Supplier No.	Cat. No.
Standard Bags				
2040.5 mL (69 oz.)	3 mil	19 x 38.1 cm (7 1/2 x 15")	B01323WA	CA11012-414
118 mL (4oz.)	2.25 mil	7.6 x 18.4 cm (3 x 7 1/4")	B00679WA	CA11216-012
532 mL (18oz.)	2.5 mil	11.4 x 22.9 cm (4 1/2 x 9")	B00736WA	CA11216-056
798 mL (27oz.)	3.0 mil	12.7 x 30.5 cm (5 x 12")	B00990WA	CA11216-089
1065 mL (36oz.)	3.0 mil	12.7 x 38.1 cm (5 x 15")	B00994WA	CA11216-091
207 mL (7oz.)	3.0 mil	9.5 x 17.8 cm (3 3/4 x 7")	B00992WA	CA11216-200
710 mL (24oz.)	3.0 mil	15.2 x 22.9 cm (6 x 9")	B01020WA	CA11216-409
1242 mL (42oz.)	3.0 mil	15.2 x 38.1 cm (6 x 15")	B01027WA	CA11216-420
Bags with White Write-on Strip				
5441 mL (184 oz.)	4 mil	38.1 x 50.8 cm (15 x 20")	B01447WA	89130-776
29 mL (1oz.)	2.25 mil	6.4 x 12.7 cm (2 1/2 x 5")	B01067WA	CA11216-770
59 mL (2oz.)	2.25 mil	7.6 x 12.7 cm (3 x 5")	B01064WA	CA11216-772
118 mL (4oz.)	2.25 mil	7.6 x 18.4 cm (3 x 7 1/4")	B01062WA	CA11216-774
Stand-Up Bags with White Write-on Strip				
710 mL (24oz.)	3.0 mil	15.2 x 22.9 cm (6 x 9")	B01401WA	CA11216-920
118 mL (4oz.)	2.5 mil	7.6 x 18.4 cm (3 x 7 1/4")	B01364WA	CA13500-390
532 mL (18oz.)	3.0 mil	11.4 x 22.9 cm (4 1/2 x 9")	B01365WA	CA13500-392

Whirl-Pak™ Scoop-Bag, Nasco®

For fast, convenient, economical sampling of a variety of materials. The bag contains a sterile polypropylene scoop, eliminating the need to carry two items to collect the sample.

Bag Capacity	532 mL (18 oz.)
Bag Dimensions	11.5W x 23L cm (4 1/2 x 9")
Bag Thickness	2.5mil
Scoop Capacity	59 mL (2 oz.)
Scoop Length	18.5L cm (7 1/4")

Description	Capacity	Supplier No.	Cat. No.
Scoop-Bag	60 mL (2 oz.)	B01350WA	CA13500-387

Whirl-Pak™ Speci-Sponge® Environmental Sampling Bag, Sterile, Nasco®

Sterile, economical sampling bag with sponge is specifically designed for testing surfaces, equipment, and animal carcasses for the presence of *Listeria*, *Salmonella*, *E. coli*, and other food-borne pathogens. The 4x8 cm (1.5x3") sponge comes in an 18oz. Write-On Whirl-Pak™ bag. After adding diluent and wiping the surface with the moistened sponge, place it in the bag and whirl it closed to form a leakproof seal. Puncture-proof tabs reduce potential damage to the bag.



Description	Size	Supplier No.	Cat. No.
Write-On Whirl-Pak™	18 oz.	B01245WA	CA11216-790

Whirl-Pak™ Bags with Sodium Thiosulfate, Nasco®

Sterile polyethylene bags are designed for sampling any potable water supply. Each bag includes nontoxic, non-nutritive tablets containing 10mg of active sodium thiosulfate. The 100mL size bag for single test use includes one tablet and features 4oz. and 100mL indication lines. The 300mL bag includes three tablets and is suitable for multiple tests. Puncture-proof tab bag closures are labeled "NASCO Thio-Bag" for easy identification. White write-on strip accepts pen, pencil, and felt-tip marker.

Stand-up bags (11216-922, 11216-924) feature a gusset on the bottom that flattens out when the sample is placed inside, allowing the bag to stand up completely by itself without the need for racks or special holders.

EPA approved.

Double grid plastic coated carrying racks have a second grid approximately 2.5cm (1") below the top to keep bags upright. Rack 11216-762 provides 15 compartments for 100mL bags. Rack 11216-786 provides 12 compartments for 300mL bags.



Description	Capacity	W x L	Supplier No.	Cat. No.
Thio-Bags	100 mL	7.6 x 18.4 cm (3 x 7 1/4")	B01040WA	CA11216-759

Accessories		Supplier No.	Cat. No.
Description			
Double Grid Racks for 100 mL Bags		B01109WA	CA11216-762
Double Grid Racks for 300 mL Bags		B00751WA	CA73530-002



VWR® Sample Bags for the Seward Stomacher® Blender

Sample bags are designed to withstand the paddle action of Stomacher® lab blenders.

All standard and closure bags are made of highly transparent polypropylene and have wide-sealed bottoms to prevent leaks. Bags with 4mil wall thickness are for analyses of firmer samples. Standard bags are made with heat-extruded virgin polyethylene tubing and feature a tear-off sterile barrier top to ensure sterility up to the time of use. Closure bags permit collection, transportation, blending, and storage of samples all within the same bag. They are available with regular wire or extra-strength flat wire closures. Some bags feature a write-on strip for easier sample identification.

FILTRA-BAG® bags are made of a mix of polyethylene and nylon. The dividing filter membrane allows for optimal solution and bacterial flow between the compartments during blending. Residue and semi-solid or solid substances remain in the compartment where the sample was inserted. Liquid can be extracted from the other compartment for an accurate aliquot that is free of solid particles.

SECURE-T® bags are made of heat extruded polyethylene tubing for internal sterility and to eliminate the need for side seals. Bags are malleable yet durable, with superior wall strength. May be used in general purpose blending or analysis testing.

The LABRACK® storage rack, an ideal tool for storing samples, is designed to store up to ten 400 series blender bags, closed with a clip, in their upright position.



Description	Capacity	Thickness	W x L	Cat. No.
For 80 Series Stomacher® Blenders				
Standard Bag with Tear-Off Top	207 mL (7 oz.)	3 mil	10.2 x 15.2 cm (4 x 6")	CA11216-898
For 400 Series Stomacher® Blenders				
SECURE-T® Bag with Tear-Off Top	1.63 L (55 oz.)	3 mil	17.8 x 30.5 cm (7 x 12")	CA11216-900
SECURE-T® Bag with Tear-Off Top	1.63 L (55 oz.)	4 mil	17.8 x 30.5 cm (7 x 12")	CA11216-902
FILTRA-BAG® with Open Top	1.63 L (55 oz.)	3 mil	17.8 x 30.5 cm (7 x 12")	CA11216-904
SECURE-T® Bag with Write-On Strip and Tear-Off Top	1.63 L (55 oz.)	3 mil	17.8 x 30.5 cm (7 x 12")	CA89003-820
SECURE-T® Bag with Tear-Off Top	4.25 L (144 oz.)	4 mil	30.5 x 35.6 cm (12 x 14")	CA89085-562
SECURE-T® Bag with Open Top	1.63 L (55 oz.)	3 mil	17.8 x 30.5 cm (7 x 12")	CA89085-564
FILTRA-BAG® with Safety Tab and Flat Wire Closure	710 mL (24 oz.)	3 mil	15.2 x 22.9 cm (6 x 9")	CA89085-570
FILTRA-BAG® with Tear-Off Top	1.63 L (55 oz.)	3 mil	17.8 x 30.5 cm (7 x 12")	CA89085-572
FILTRA-BAG® with Safety Tab and Flat Wire Closure	1.63 L (55 oz.)	3 mil	17.8 x 30.5 cm (7 x 12")	CA89085-574
For 3500 Series Stomacher® Blenders				
SECURE-T® Bag with Tear-Off Top	12.0 L (405 oz.)	3 mil	38.1 x 50.8 cm (15 x 20")	CA11216-890
SECURE-T® Bag with Tear-Off Top	12.0 L (405 oz.)	4 mil	38.1 x 50.8 cm (15 x 20")	CA11216-892
SECURE-T® Bag with Open Top	12.0 L (405 oz.)	3 mil	38.1 x 50.8 cm (15 x 20")	CA89085-566

Accessories

Description	Cat. No.
Closure Clips for 400 Series Stomacher® Blender Bags	CA11216-908
LABRACK™ Storage Rack	CA11216-910

Whirl-Pak™ Bags for Seward Stomacher® Lab Blenders, Nasco®

Sterile Whirl-Pak™ bags are designed to keep liquid, semi-solid, or solid samples in the bag during blending. Bags are made of heavy-duty 4mil-thick polyethylene, except for **11216-796**, which is made of heavy-duty 3mil-thick polyethylene. All bags have a continuous perimeter seal. Bags feature patented Puncture Proof Tabs with tape extending past the wire ends to eliminate sharp points that could puncture the bag or cause damage to skin or gloves.

Ordering Information: Selected styles incorporate a white, write-on strip for labeling. Sizes available for the Seward Stomacher® 400C, 3500 Series, and 80 Biomaster.



Description	Model	Capacity	Dimensions	Thickness	Supplier No.	Cat. No.
Clear	400	710 mL (24 oz.)	15.2W x 22.9L cm (6 x 9")	4 mil	B01063WA	CA11216-424
Write-on Strip	400 and 3500	1.63 L (55 oz.)	19W x 30.5L cm (7 1/2 x 12")	4 mil	B01195WA	CA11216-778
Write-on Strip	400	710 mL (24 oz.)	15.2W x 22.9L cm (6 x 9")	4 mil	B01196WA	CA11216-779

Sample Collection

Bags

Whirl-Pak™ Filter Bags for Homogenizer Blenders, Sterile, Nasco®

Filter bags are made from extra-heavy polyethylene with a strong perimeter seal. Bags have a third layer of finely perforated polyethylene that filters out solids in the sample. The filter layer is sealed into the perimeter of the bag on the sides and bottom, allowing the sample to be placed in the bag on either side. Bags should not be used at temperatures above 82°C (180°F). Bags can be frozen to any temperature. Careful handling required after freezing. Sterilized with ethylene oxide gas.



Capacity	Dimensions	Thickness	Supplier No.	Cat. No.
1.63 L (55 oz.)	19W x 30.5L cm (7 1/2 x 12")	4 mil	B01318WA	CA-11216-514
710 mL (24 oz.)	15.2W x 22.9L cm (6 x 9")	4 mil	B01348WA	CA11216-520
2.72 L (92 oz.)	25.4W x 38.1L cm (10 x 15")	4 mil	B01488WA	CA89126-754

Kapak SilverPAK Pouches, Ampac Flexibles

Ampac's SilverPAK is a 2ply structure consisting of metalized polyester and polyethylene (METPET/PE). These metalized pouches are ideal for powders and other granular materials.



Case Dimensions	Dimensions	Thickness	Shipping Weight	Supplier No.	Cat. No.
14.5 x 11.5 x 6.5"	20.3 x 30.5 cm (8 x 12")	2.5 mil (63.5 µm)	8.6 kg (19 lbs.; 304 oz.)	604B-1M	11213-954

Kapak SealPAK 400 and 500 Series Pouches, Ampac Flexibles

Boilable, freezable, and microwavable polyester/polyethylene (PET/PE) laminated pouches combine tensile strength with strong heat seals and superior barrier properties. These pouches will sustain temperatures from -56 to 115°C (-70 to 240°F). Safe for use with concentrations of formaldehyde, most acids, alkalis, greases, oils, and organic solvents. Transparent, airtight, moisture, and odor-proof. They can withstand infrared and gamma rays. These pouches can be surface sterilized using VHP. Ideal for histology and pathology specimens, as well as safe biological waste disposal in medical, institutional, and industrial facilities. Seal using vacuum or commercial heat-sealing equipment.



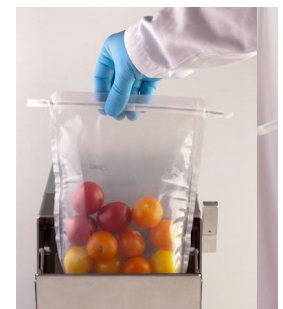
Regular weight 2.5 mil material is best for moderate protection from handling and chemical or environmental contact. Tear notches included. Heavy-duty 4.5 mil material is best for institutional and industrial use; they are also suitable for long-term storage and mailing. Tear notches not included.

Capacity	Case Dimensions	Dimensions	Thickness	Shipping Weight	Supplier No.	Cat. No.
Heavy-Duty, 4.5 mil						
118.3 mL (4 oz.)	17 x 12.5 x 7"	10.1 x 15.2 cm (4 x 6")	4.5 mil (114.3 µm)	9.5 kg (21 lbs.; 336 oz.)	500-24	11214-469
473.2 mL (16 oz.)	15.5 x 9.5 x 6.8"	16.5 X 20.3 cm (6.5 x 8")	4.5 mil (114.3 µm)	8.2 kg (18 lbs.; 288 oz.)	502B-1M	11213-916
480 mL (16oz.)	16.3 x 12.1 x 10"	16.5 X 20.3 cm (6.5 x 8")	4.5 mil (114.3 µm)	8.2 kg (18 lbs.; 288 oz.)	502-24	11214-491

FILTRA-BAG® Blender Bags, Labplas

Labplas FILTRA-BAG blender bags are designed to simplify taking an aliquot when working with samples which contain large amounts of residue and/or semi-solid / solid substances. When lacing an aliquot onto groth media, it's very important that the volume of the aliquot be accurate and that it be free of solid particles. This prevents pipette blockage as well as uneven plate distribution.

Description	Capacity	Thickness	W x L	Supplier No.	Cat. No.
FILTRA-BAG® with Safety Tab and Flat Wire Closure for 3500 Series Blenders	2.72 L (92 oz.)	3 mil	25.4 x 38.1 cm (10 x 15")	EFT-1015A	89182-944



Poultry Rinse Bag, Nasco®

Polyethylene bag for poultry sampling to test for *E. coli*. Sealed at the top to maintain sterility. Perforated for easy opening.



Thickness	W x L	Supplier No.	Cat. No.
2 mil	38.1 x 50.8 cm (15 x 20")	B01319WA	CA11216-516

VWR® COLLECTION

VWR® Bottles, High-Density Polyethylene, Narrow Mouth

- Ideal for Storing, Shipping and Packaging Liquids
- Reliable High-Density Polyethylene
- Efficient Polypropylene Screw Closures

These narrow mouth bottles offer all the features you look for in a superior laboratory storage bottle. Leakproof polypropylene screw caps assure a consistently tight seal. Standard serum stoppers can be used on the 60mL size.



Capacity	Cap Size	Cat. No.
60 mL (2 oz.)	20 mm	16059-046
120 mL (4 oz.)	24 mm	16059-068
250 mL (8.4 oz.)	24 mm	16059-104
1 L (33.8 oz.)	38-430	16059-148

VWR® COLLECTION

VWR® Round Bottles, High-Density Polyethylene, Wide Mouth

Lightweight bottles are an excellent value for storage of both liquid and powdered process or environmental samples. White polypropylene caps with polyethylene film/foam liners eliminate leaks.



Capacity	Cap Size	Cat. No.
30 mL (1 oz.)	28-400	16125-720
60 mL (2 oz.)	33-400	16125-752
250 mL (8.4 oz.)	53-400	16125-810
500 mL (16.9 oz.)	53-400	16125-843
950 mL (32.1 oz.)	53-400	16125-876
2 L (67.6 oz.)	89-400	16125-901
3.8 L (1 gal.)	89-400	16125-967

VWR® COLLECTION

VWR® Laboratory Bottles, Amber High-Density Polyethylene, Wide Mouth

- Ideal for Light-Sensitive Materials or Photosensitive Samples
- Leakproof
- Easy-to-Pour Wide Mouth Design



Bottles are for general laboratory use, but are especially good for light-sensitive materials or photo-sensitive samples. Can be stored in freezer to -100°C (-148°F), and have excellent chemical resistance to alcohols, alkalis, and both diluted and concentrated acids. Thick walls afford durability. Shrink ring at neck ensures smooth interior so that contents pour fluidly, while sealing ring and semi-butressed threads in closure ensure leak prevention. Bottles are produced via the injection blow molding process for exact features and bottle stability.

Ordering Information: Amber polypropylene caps included.

Capacity	Dia. x H	Cap Size	Cat. No.
30 mL (1 oz.)	35 x 60 mm	28 mm	414004-116
60 mL (2 oz.)	39 x 83 mm	28 mm	414004-117
250 mL (8.4 oz.)	62 x 128 mm	43 mm	414004-119
500 mL (16.9 oz.)	73 x 164 mm	53 mm	414004-120
1 L (33.8 oz.)	92 x 195 mm	63 mm	414004-121

VWR® COLLECTION

VWR® Square Bottles, Polyethylene, Wide Mouth

Translucent, leakproof bottles are ideal for shipping and storing liquids, solids, and semisolids. Square design saves space. With approximate graduations and polypropylene cap. Hole in cap and tab on bottle facilitate attachment of identification tags and custody seals. Excellent chemical resistance. Can be used at temperatures as high as 110°C (230°F).



Capacity	Cap Size	Graduation Interval	Cat. No.
25 mL (0.84 oz.)	20 mm	5 mL	16650-550
50 mL (1.7 oz.)	24 mm	10 mL	16650-552
100 mL (3.4 oz.)	36 mm	20 mL	16650-554
250 mL (8.4 oz.)	36 mm	50 mL	16650-556
500 mL (16.9 oz.)	50 mm	100 mL	16650-558
1 L (33.8 oz.)	60 mm	100 mL	16650-560
2 L (67.6 oz.)	60 mm	100 mL	16650-562

Comprehensive Selection of Products

To offer our customers the best possible selection of products, VWR maintains strategic alliances with thousands of manufacturers. We offer the industry's widest, most objective range of cost-efficient products with the best support, and introduce thousands of new products every year to fulfill innovative requests. To order, call **1.800.932.5000** or visit **ca.vwr.com**.





VWR® Square PETG Media Bottles

These sterile media bottles are manufactured from Eastar™ PETG, the resin of choice for single use labware. Ideal for use in stem cell, mammalian, and in-vitro fertility culture applications, PETG media bottles are designed to retain their clarity after gamma sterilization and consistently maintain the integrity of contents. Bottles are also ideal for the storage of media, laboratory reagents, and biological buffers. They feature a patented, leak-proof, tamper-evident closure system. Graduation markings are molded in for reference filling.

Eastar™ PETG resin meets ISO 10993 and/or USP Class VI biocompatibility requirement; Food Contact Status compliant. It is an amorphous material that displays performance properties including clarity, toughness, excellent gas barrier and chemical inertness. Bottles can be safely sterilized with gamma radiation without property loss or color shift. They are supplied gamma sterilized to SAL 10⁻⁶, with blue caps attached.

Ordering Information: Each case is specifically packaged for sterile production with multi-barrier elastomer packaging.



Capacity	Height	Neck O.D.	Outer Diameter	Cap Size	Cat. No.
Bottles with Standard Caps					
30 mL (1 oz.)	60 mm	17.5 mm	38 mm	24-415	89132-066
60 mL (2 oz.)	80 mm	21.5 mm	40 mm	24-415	89132-064
125 mL (4.2 oz.)	106.7 mm	34.5 mm	54.4 mm	38-430	89132-062
250 mL (8.4 oz.)	141 mm	34.5 mm	61 mm	38-430	89132-060
500 mL (16.9 oz.)	172 mm	34.5 mm	73.8 mm	38-430	89132-058
1 L (33.8 oz.)	213 mm	34.5 mm	92 mm	38-430	89132-056
2 L (67.6 oz.)	265 mm	47.5 mm	115 mm	53B	89132-054
Bottles with Tamper Evident Seals					
30 mL (1 oz.)	60 mm	17.5 mm	38 mm	24-415	89095-302
60 mL (2 oz.)	80 mm	21.5 mm	40 mm	24-415	89095-300
125 mL (4.2 oz.)	106.7 mm	34.5 mm	54.4 mm	38-430	89095-298
250 mL (8.4 oz.)	141 mm	34.5 mm	61 mm	38-430	89095-296
500 mL (16.9 oz.)	172 mm	34.5 mm	73.8 mm	38-430	89095-294
1 L (33.8 oz.)	213 mm	34.5 mm	92 mm	38-430	89095-292
2 L (67.6 oz.)	265 mm	47.5 mm	115 mm	53B	89095-290

Gosselin Conical Containers

Gosselin's conical containers, made of polypropylene, have molded graduations and are highly shock resistant. They are assured Sterile 10⁻³.

Offered in natural or white polypropylene. The natural 125 mL size has a HDPE screw cap with writing area; all other sizes have an LDPE snap cap.

Gosselin is a Corning brand of laboratory plasticware designed for use in industrial microbiology labs such as Food & Beverage, Environmental/Water Testing, etc.



Volume	Cap Type	Sterility	Packaging	Supplier No.	Cat. No.
Natural PP Conical Containers					
1 L (33 ¹ / ₅ oz.)	Snap Cap	Sterile	Bulk	PC1000-05	89200-892
200 mL (6 ³ / ₄ oz.)	Snap Cap	Sterile	Bulk	PC200A-02	89200-896
400 mL (13 ¹ / ₂ oz.)	Snap Cap	Sterile	Bulk	PC400-03	89200-900
White PP Conical Containers					
1 L (33 ¹ / ₅ oz.)	Snap Cap	Sterile	Bulk	PC1000-04	89200-894
200 mL (6 ³ / ₄ oz.)	Snap Cap	Sterile	Bulk	PC200A-07	89200-898
400 mL (13 ¹ / ₂ oz.)	Snap Cap	Sterile	Bulk	PC400-05	89200-902

Gosselin Octagonal PET Bottles

These Gosselin Octagonal Bottles made of Polyethylene Terephthalate (PET), are as transparent as glass and are highly ergonomic. They are molded with graduations every 25mL. The bottles are designed with a leak-resistant closure system and an HDPE tamper-evident screw cap. These Gosselin bottles are food contact compliant.

The red-capped PET Octagonal bottles are bulk packed and placed in a single outer bag within a carton. The natural-capped PET Octagonal bottles are packed in a Tray Filmed Pack, with a traceability label and ionization indicator, and are placed in a single outer bag within a carton.

Gosselin is a Corning brand of laboratory plasticware designed for use in industrial microbiology labs such as Food & Beverage, Environmental/Water Testing, etc.



Capacity	Height	Width	Neck I.D.	Cap Color	Supplier No.	Cat. No.
Octagonal Bottles - Tray Filmed Pack						
125 mL (4.2 oz.)	105 mm (4 ¹ / ₈ "	53 mm (2"	31 mm (1 ² / ₈ "	Natural	P125B-06	89200-876
1 L (33.8 oz.)	212 mm (8 ¹ / ₃ "	96 mm (3 ⁷ / ₈ "	31 mm (1 ² / ₈ "	Natural	P1000B-11	89200-880
250 mL (8.4 oz.)	132 mm (5 ¹ / ₈ "	64 mm (2 ¹ / ₂ "	31 mm (1 ² / ₈ "	Natural	P250B-06	89200-884
500 mL (16.9 oz.)	173 mm (6 ⁷ / ₈ "	76 mm (3"	31 mm (1 ² / ₈ "	Natural	P500B-12	89200-888

NALGENE® White Polypropylene Closures, Thermo Scientific

Linerless closures fit NALGENE® Jars 36319-501, 16128-841 series, 16129-306 and -308, 16129-356 and -378. Autoclavable. Cap Size: 70mm.



Description	Cap Size	Supplier No.	Cat. No.
Replacement Closure for 70 mm Jars, White Polypropylene	70 mm	712154-0700	16219-120

Nalgene® Polypropylene Copolymer Dilution Bottles, Thermo Scientific

Lightweight, break-resistant, autoclavable bottles for preparing serial dilutions in quantitative microbiological analyses. Can also be used as culture vessels, sampling, or storage bottles.

Narrow mouth (28mm) bottle is intended for liquid samples; wide mouth (38mm) is designed for solid or liquid samples. Molded-in graduations at both 90 and 99mL for easy preparation of 1/10 or 1/100 dilutions in the same bottle.



Contact-clear bottles have excellent resistance to strong acids, alcohols, and bases. Useful temperature range of -40°C to 121°C (-40°F to 250°F). Withstand repeated autoclaving and washing with Tween®. Accurate to ±4mL.

For replacement caps, see 16219-030 series.

Note: Before autoclaving, set cap on top of bottle without engaging threads.

Ordering Information: Supplied with linerless polypropylene screw closure, guaranteed leakproof. Bottles available in narrow mouth and wide mouth styles.

Capacity	Cap Size	Style	Supplier No.	Cat. No.
200 mL (6.7 oz.)	28-415	Narrow Mouth	2505-0280	16161-745
205 mL (6.9 oz.)	38-415	Wide Mouth	2505-0380	16161-767

Dilu-Lok II™, Dilution Vial with Hinged Cap, Hardy Diagnostics

Pre-filled dilution vial is designed for the food and dairy. A wide 45 mm opening accommodates large samples. A flip-top lid allows for easy one-handed opening. The Dilu-Lok eliminates time and money spent on preparing dilution vials. Each lot is tested for pH, sterility, fill volume, and toxicity. Butterfield's buffer meets or exceeds requirements established by APHA, FDA, AOAC.

Description	Size	Packaging	Supplier No.	Cat. No.
Buffered Peptone Water, Gamma Irradiated, Dilution Blank	90 mL	Bottle	D080	CA89407-096
Buffered Peptone Water with 1% Tween® 20, Irradiated	90 mL	Bottle	D085	CA89407-098
Deionized Water	90 mL	Bottle	D090	CA89407-100
Deionized Water	99 mL	Bottle	D099	CA89407-102
Butterfield's Buffer	90 mL	Bottle	D590	CA89407-110
Butterfield's Buffer	99 mL	Bottle	D599	CA89407-112
Phosphate Buffer with Magnesium Chloride	90 mL	Bottle	D690	CA89407-114
Phosphate Buffer with Magnesium Chloride	99 mL	Bottle	D699	CA89407-116



VWR COLLECTION

VWR® Beaker Cups, Polystyrene

Polystyrene, disposable. Designed for use with various automated procedures and as an economical, general-purpose sample cup.

The 5mL and 20mL sizes are recommended for flame photometry analysis.



Capacity	Cat. No.
5 mL (0.17 oz.)	13915-985
10 mL (0.34 oz.)	13915-996
20 mL (0.68 oz.)	13916-004
50 mL (1.7 oz.)	13916-015
150 mL (5 oz.)	13916-037
250 mL (8.5 oz.)	13916-060
800 mL (27 oz.)	13916-128
1 L (34 oz.)	13916-150

VWR COLLECTION

VWR® Graduated Beaker with Handle, Low Form, Polypropylene

Molded of autoclavable, translucent polypropylene. Robust with non-drip spout and ridged thumb-grip on handle. Low form for better stability. All sizes graduated in milliliters and liters.



Capacity	Graduation Range	Cat. No.
500 mL (17 oz.)	25–500 mL	13916-707
1 L (34 oz.)	50–1000 mL	13916-730
2 L (68 oz.)	50–2000 mL	13916-762
3 L (101 oz.)	100–3000 mL	13916-795
5 L (1.3 gal.)	250–5000 mL	13916-820

VWR® Graduated Beakers, Polypropylene

- Withstand Temperatures up to 121°C
- Shatter-Resistant
- Easy-to-Read Graduations
- Transparent for Clear Content Visibility

Beakers feature a pouring spout for quick and easy dispensing. Highly resistant to strong acids. Stackable. Steam autoclavable.



Capacity	Graduation Range	Cat. No.	Price
15 mL (0.5 oz.)	5–15 mL	414004-143	Pk. 100/ 43.33
30 mL (1 oz.)	5–30 mL	414004-144	Pk. 100/ 53.58
50 mL (1.7 oz.)	5–50 mL	414004-145	Pk. 100/ 58.59
150 mL (5 oz.)	5–150 mL	414004-147	Pk. 100/ 134.76
250 mL (8.5 oz.)	10–250 mL	414004-148	Pk. 50/ 81.22
400 mL (14 oz.)	25–400 mL	414004-149	Pk. 50/ 110.88
600 mL (20 oz.)	25–600 mL	414004-150	Pk. 25/ 64.19

Nalgene® Graduated Beakers with Handle, High-Density Polyethylene, Thermo Scientific

Made from high-density polyethylene with extra heavy wall. Graduated in both ounces and milliliters. Large rectangular handle. Especially useful in handling acids, alkalies, and photographic chemicals.



Capacity	Graduation Range	Supplier No.	Cat. No.
1 L (34 oz.)	100–1000 mL	1220-1250	13916-955
3 L (101 oz.)	200–3000 mL	1220-2500	13916-977

VWR® Tri-Pour® Graduated Disposable Beakers, Polypropylene

Transparent polypropylene beaker with three pouring lips for dripless dispensing. Graduated, with accuracy of ±5%. May also be used for measuring. Resistant to strong acids and bases, organic solvents, and commonly used laboratory reagents.

Write-on cardboard caps ensure spillproof, leak-resistant closure.



Capacity	Cat. No.
50 mL (1.7 oz.)	25384-150
100 mL (3.4 oz.)	25384-152
250 mL (8.5 oz.)	25384-154
400 mL (14 oz.)	25384-156
800 mL (27 oz.)	25384-158
1 L (34 oz.)	25384-160

Accessories	Cat. No.
Description	
Caps for 50 mL Beakers	77776-750
Caps for 100 mL Beakers	77776-752
Caps for 250 mL Beakers	77776-754
Caps for 400 mL Beakers	77776-756
Caps for 800 mL Beakers	77776-758
Caps for 1000 mL Beakers	77776-760

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VWR COLLECTION

VWR® Specimen Containers, Polypropylene, with Caps

Durable, translucent containers may be used for storage or transport of most liquid or solid specimens. Tolerate strong acids, bases and most organic solvents. Graduated in both avoirdupois and metric units. Withstand temperatures –10 to 130°C (14 to 266°F) continuously or –10 to 140°C (14 to 284°F) for a short period.



Each container supplied with a purple polyethylene screw cap.

Description	Capacity	Cat. No.
Sterile, Bulk Packaging	133 mL (4.5 oz.)	25384-144
Sterile, Individually Wrapped	133 mL (4.5 oz.)	25384-146
Nonsterile, Bulk Packaging	133 mL (4.5 oz.)	25384-148

VWR COLLECTION

VWR® HDPE Multipurpose Containers

Translucent containers for the storage of pathology, industrial, and environmental samples. Containers are made of high quality plastic to resist breakage and come in a wide range of sizes. The matching cap snaps on tight for a secure fit. The 4800mL container is equipped with a handle for portability.



Capacity	Dimensions	Cat. No.
120 mL (4 oz.)	7dia. x 5.7H cm (2 ³ / ₄ x 2 ¹ / ₄ "	89009-662
250 mL (8.5 oz.)	8.9dia. x 6H cm (3 ¹ / ₂ x 2 ³ / ₈ "	89009-664
473 mL (16 oz.)	8.9dia. x 8.9H cm (3 ¹ / ₂ x 3 ¹ / ₂ "	89009-666
946 mL (32 oz.)	11.4dia. x 12H cm (4 ¹ / ₂ x 4 ³ / ₄ "	89009-668
1.9 L (64 oz.)	16.5dia. x 11.4H cm (6 ¹ / ₂ x 4 ¹ / ₂ "	89009-670
2.5 L (84.5 oz.)	16.5dia. x 16.5H cm (6 ¹ / ₂ x 6 ¹ / ₂ "	89009-672
4.7 L (1.25 gal.)	21.6dia. x 16.5H cm (8 ¹ / ₂ x 6 ¹ / ₂ "	89038-282
5 L (1.3 gal.)	22.8dia. x 16.5H cm (9 x 6 ¹ / ₂ "	89009-674

VWR COLLECTION

VWR® Traceable® Hygrometer/Thermometer/Barometer/Dew Point Pen

- Traceable®
- Temperature in °C and °F

Compact design features an electronic capacitance polymer film sensor that is not affected by condensation. Tough ABS plastic housing and water-resistant design with O-ring seal and membrane keypad assure a long life in severe lab or harsh plant environments. Hold button freezes the reading on the display. High-contrast 1cm (3/8") LCD digits are easy to read. Minimum and maximum readings are available by pressing a button. Dual display shows humidity/temperature, humidity/dew point, barometric pressure/temperature, or barometric pressure/humidity.

A serial numbered certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA to indicate instrument traceability to standards provided by the National Institute of Standards and Technology.

Ordering Information: Supplied with four AAA batteries.



Dew Point Range	–25.3 to 48.9°C (–13.5 to 120°F)
Dew Point Resolution	0.01°
Dimensions	3.8 x 3.8 x 20.3 cm (1 ¹ / ₂ x 1 ¹ / ₂ x 8")
Humidity Accuracy	±3% from 40 to 60% RH, ±4% otherwise
Humidity Range	10.0 to 95.0%
Humidity Resolution	0.10%
Pressure Accuracy	±4 hPa
Pressure range	10–1100 hPa, 7.5–825 mm Hg, 0.29–32.48 in. Hg
Pressure Resolution	0.1 and 1 hPa, 0.1 mm Hg, 0.01 in. Hg
Temperature Accuracy	±1°C (1.8°F)
Temperature range	0 to 50°C (32 to 122°F)
Temperature Resolution	0.1°
Weight	141.7 g (5 oz.)

Description	Cat. No.
Hygrometer Pen	89094-760

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Jar, Polypropylene, Natural, Wide Mouth, Qorpak®

Natural polypropylene jars are translucent and durable. Jars are ideal for storing and collecting specimens and lab supplies. The wide neck and straight-sided design facilitates easy recovery of contents. Polypropylene offers greater tolerance to high temperatures than HDPE, as well as better contact clarity.

Ordering Information: Jars 89093-116, -118, -166, -168, and -170 are supplied Vacuumed and Ionized.



Description	Capacity	Cap Size	Cap Type	Color	Supplier No.	Cat. No.
Jar	30 mL (1 oz.)	43-400	Jars Only	Natural	PLA-03342	89204-944
Jar	60 mL (2 oz.)	53-400	Jars Only	Natural	PLA-03344	16087-173
Jar	120 mL (4 oz.)	58-400	Jars Only	White	PLA-06007	89080-562
Jar	120 mL (4 oz.)	58-400	Jars Only	Natural	PLA-03346	16087-175
Jar	240 mL (8.1 oz.)	89-400	Jars Only	Natural	PLA-03347	16087-176
	480 mL (16.2 oz.)	89-400	Jars Only	White	PLA-03351	16152-330
Jar	480 mL (16.2 oz.)	89-400	Jars Only	Natural	PLA-03350	16087-179
Jar	240 mL (8.1 oz.)	89-400	Black Phenolic with Pulp/Aluminum Foil Liner	Natural	PLC-04909	16180-750
Jar	480 mL (16.2 oz.)	89-400	Black Phenolic with Pulp/Aluminum Foil Liner	Natural	PLC-04907	16180-748
Jar	120 mL (4 oz.)	58-400	White Polypropylene F217 Lined	Natural	PLC-03700	89210-126
Jar	240 mL (8.1 oz.)	89-400	White Polypropylene F217 Lined	Natural	PLC-03703	89210-128
Jar	480 mL (16.2 oz.)	89-400	White Polypropylene F217 Lined	Natural	PLC-03713	89199-122
Jar, Vacuum and Ionized	120 mL (4 oz.)	58-400	White Polypropylene Unlined	Natural	PLC-10488	89093-116
Jar	30 mL (1 oz.)	43-400	White Polypropylene Unlined	Natural	PLC-03693	36318-853
Jar, Vacuum and Ionized	60 mL (2 oz.)	53-400	White Polypropylene Unlined	Natural	PLC-10489	89093-170
Jar	60 mL (2 oz.)	53-400	White Polypropylene Unlined	Natural	PLC-03697	36318-854
Jar	120 mL (4 oz.)	58-400	White Polypropylene Unlined	Natural	PLC-03701	36318-852
Jar, Vacuum and Ionized	240 mL (8.1 oz.)	89-400	White Polypropylene Unlined	Natural	PLC-10495	89093-166
Jar	240 mL (8.1 oz.)	89-400	White Polypropylene Unlined	Natural	PLC-03704	36318-860
Jar, Vacuum and Ionized	480 mL (16.2 oz.)	89-400	White Polypropylene Unlined	Natural	PLC-10496	89093-168
Jar	480 mL (16.2 oz.)	89-400	White Polypropylene Unlined	Natural	PLC-03717	36318-858
Jar, Vacuum and Ionized	946 mL (32 oz.)	120-400	White Polypropylene Unlined	Natural	PLC-10494	89093-118
Jar	946 mL (32 oz.)	120-400	White Polypropylene Unlined	Natural	PLC-03720	36318-856

Nalgene® PMP Jars, Straight-Sided, Thermo Scientific

Transparent, autoclavable, with straight sides. Polypropylene white screw closures are linerless, noncontaminating, and autoclavable.

Top is recessed to allow stacking. Jars of 125mL and 250mL sizes have standard mason jar threads.

Ideal for museum jars — formaldehyde loss only about 2% per year. Remove closure before autoclaving, or set closure on top of jar at an angle without engaging the threads.

Suitable for food and beverage use. Meets requirements of CFR21, Part 177.1520 section of Food Additives Amendment of Federal Food and Drug Act.



Capacity	Cap Size	Supplier No.	Cat. No.
60 mL (2 oz.)	53 mm	2117-0060	16129-354
125 mL (4.2 oz.)	70 mm	2117-0125	16129-356
250 mL (8.4 oz.)	70 mm	2117-0250	16129-378
500 mL (16.9 oz.)	120 mm	2117-0500	16129-390
1 L (33.8 oz.)	120 mm	2117-1000	16129-414

Accessories			
Description	Supplier No.	Cat. No.	
Replacement Closure for 70 mm Jars, White Polypropylene	712154-0700	16219-120	

VWR® COLLECTION

VWR® TraceClean® Wide Mouth Jars, High-Density Polyethylene

Straight-sided jars are for collecting clays, slurries, and sediment matrices for use in geotechnical, environmental, Toxicity Characteristic Leaching Procedure (TCLP) metals, inorganic compounds, and benthic organism studies. Supplied with polyfoam-lined caps.

Processed (PC) and Quality-Assured® (QA) jars follow EPA cleaning procedures listed in the OSWER Directive 9240.0-05A "Specifications and Guidance for Contaminant-Free Sample Containers." QA jars include a Certificate of Analysis in every case. QA jars also include bar codes with lot number and individual container number for complete traceability. Not Processed (NPC) jars do not receive the specialty cleaning process. All cases are custody-sealed to ensure content integrity.



Description	Capacity	Cap Size	Cat. No.
Processed (PC)	250 mL (8.4 oz.)	70-400	89094-100
Processed (PC)	500 mL (16.9 oz.)	89-400	89094-102
Processed (PC)	1000 mL (33.8 oz.)	89-400	89094-104
Quality-Assured® (QA)	250 mL (8.4 oz.)	70-400	89094-106
Quality-Assured® (QA)	500 mL (16.9 oz.)	89-400	89094-108
Quality-Assured® (QA)	1000 mL (33.8 oz.)	89-400	89094-110
Not Processed (NPC)	250 mL (8.4 oz.)	70-400	89094-094
Not Processed (NPC)	500 mL (16.9 oz.)	89-400	89094-096
Not Processed (NPC)	1000 mL (33.8 oz.)	89-400	89094-098

VWR® Microbiology/Urinalysis Specimen Containers

These clear, 100% virgin medical-grade polypropylene containers are specifically designed for the collection and transport of microbiology, urinalysis, and drug testing specimens. Clear design offers exceptional clarity. Containers are crack-resistant and feature molded-in graduation markings on three sides. The top and bottom of each container is equipped with a positive grip-knurl to ease in opening or closing when handled with gloves. The straight-sided construction increases stability and allows containers to be stacked.

Containers are supplied with the SURE-LOK® proof-of-closure system. Screw-thread polyethylene caps provide a leak-resistant seal. Molded-in features on both the cap and container provide visual and tactile assurance of a secure seal. When the indicator on the cap aligns at or beyond the indicator on the container base, the container is firmly closed. Sterile containers are labeled with a security tab.

Note: Containers are intended for single use, although the container base may be autoclaved at 121°C (250°F). Caps are not autoclavable. Containers are 95kPa approved.

Ordering Information: Container 82030-406 is individually wrapped. Container 82030-444 is packaged as a dispenser pack. Container 82030-376 is supplied as a container base only, without lid.



Capacity	Cap Color	Cap Size	Cat. No.
Sterile Containers			
90 mL (3 oz.)	Natural	53 mm	82030-412
90 mL (3 oz.)	Blue	53 mm	82030-422
90 mL (3 oz.)	Green	53 mm	82030-420
90 mL (3 oz.)	White	53 mm	82030-418
90 mL (3 oz.)	Yellow	53 mm	82030-426
120 mL (4 oz.)	Natural	53 mm	82030-392
120 mL (4 oz.)	Blue	53 mm	82030-404
120 mL (4 oz.)	Green	53 mm	82030-402
120 mL (4 oz.)	Yellow	53 mm	82030-408

VWR® KlikSeal Specimen Containers

Sterile, straight-sided specimen containers are made of break-resistant polypropylene. The blue polyethylene closure seals with an audible click, assuring superior leak resistance. Closures are tamper-sealed.



Capacity	Opening Dimensions	Cat. No.
90 mL (3 oz.)	48 mm (1 7/8")	15704-002
120 mL (4 oz.)	48 mm (1 7/8")	15704-008

Sustainability with VWR

At VWR, we recognize that being a good corporate citizen is in the best interest of our customers, our community, and our company. Therefore, we follow the three primary goals as defined by the United Nations for sustainability: Environmental Protection, Social Impact, and Economic Growth. For more information, visit ca.vwr.com/sustainability.



VWR® Polypropylene Specimen Containers

Sturdy, shatter-resistant containers are manufactured from transparent polypropylene to allow constant sample viewing. Containers feature molded graduations in 10mL and 0.5oz. increments. Polyethylene snap-on lids are sold separately, except where noted. Lids create a secure seal, and offer space for date, name, doctor, and room number molded into the surface. Components are available in nonsterile or sterile formats.

Ordering Information: Lids fit both 5 and 8oz. containers. Bulk items are packaged 20 per bag, 25 bags per case.



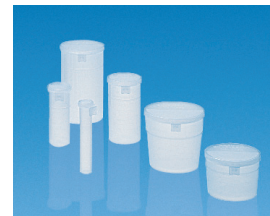
Description	Capacity	Dimensions	Sterility	Packaging	Cat. No.
Container	148 mL (5 oz.)	73.7 Dia x 66.3 H mm	Nonsterile	Bulk	89107-308
Container	237 mL (8 oz.)	73.7 Dia x 100.5 H mm	Nonsterile	Bulk	89107-310
Container	237 mL (8 oz.)	73.7 Dia x 100.5 H mm	Sterile	Bulk	89125-842
Container with Lid	237 mL (8 oz.)	73.7 Dia x 100.5 H mm	Sterile	Individually Wrapped	89125-846
Lid	—	—	Nonsterile	Bulk	89107-312
Lid	—	—	Sterile	Bulk	89125-850

Polypropylene Snap-Seal™ Sample Containers, Corning®

Designed for a wide variety of applications, these containers provide a reliable leak-tight seal when closed properly.

The Snap-Seal™ locking device keeps the cap closed and secure. Specially-designed hinged cap opens without being removed from the container to reduce the chance of sample contamination. The containers are made of recyclable, translucent polypropylene, graduated in both milliliters and ounces. Cap has a rough surface for marking.

The 120mL (4oz.) size is available in both high- and low-profile design.



Description	Capacity	Supplier No.	Cat. No.
Snap-Seal™ Sample Containers	13 mL (0.44 oz.)	1730-5X	16126-010
Snap-Seal™ Sample Containers	45 mL (1.5 oz.)	1730-2C	16126-014
High-Profile Snap-Seal™ Sample Containers	120 mL (4 oz.)	1730-4H	16126-018
Low-Profile Snap-Seal™ Sample Containers	120 mL (4 oz.)	1730-4L	16126-022
Snap-Seal™ Sample Containers	240 mL (8.1 oz.)	1730-8	16126-026
Snap-Seal™ Sample Containers	300 mL (10.1 oz.)	1730-10	16126-030

Nalgene® Sample Vials, Low-Density Polyethylene, with Snap Cap, Thermo Scientific

With friction fit, snap closures. Useful for samples, pH cups, weighing bottles, packing, and other general applications. Will not shatter like polystyrene vials.

Capacity	O.D. x H	Supplier No.	Cat. No.
5 mL	23.6 x 24.9 mm	6250-0005	66018-109
12 mL	27.1 x 35.6 mm	6250-0012	66018-142
18 mL	27.1 x 52.6 mm	6250-0018	66018-197
28 mL	27.1 x 84.6 mm	6250-9028	66018-212
50 mL	37.3 x 70.9 mm	6250-9050	66018-358
75 mL	37.3 x 107.3 mm	6250-9075	66018-359



Flip-Top Containers, Capitol Vial®

Triple-seal containers are airtight, leakproof, nonabsorptive, and nonaerosoling. Made of FDA-approved, food-grade 100% polypropylene. Hinged top permits opening and closing with one hand. Ideal for storing and packaging a wide range of solids and liquids in applications such as medical device packaging, reagent packaging, solid sample storage, and water testing.

Unique process physically closes vials in the mold during manufacture to ensure an airtight seal and zero particulates >0.5µm. Sterile.

Vials conform to FDA and SAMHSA specifications.

Ordering Information: Container 46610-588 features 10mL increments.



Capacity	Dimensions	Color	Supplier No.	Cat. No.
45 mL (1.5 oz.)	23 I.D. x 84 L mm (29/32 x 3 5/16")	Amber	02 AMBER	46610-566
45 mL (1.5 oz.)	23 I.D. x 84 L mm (29/32 x 3 5/16")	Black	02 BLACK	46610-582
45 mL (1.5 oz.)	23 I.D. x 84 L mm (29/32 x 3 5/16")	Clear	02CL	33500-728
45 mL (1.5 oz.)	23 I.D. x 84 L mm (29/32 x 3 5/16")	Dark Brown	02 DKBROWN	46610-562
45 mL (1.5 oz.)	23 I.D. x 84 L mm (29/32 x 3 5/16")	Dark Orange	02 DKORANGE	46610-548
45 mL (1.5 oz.)	23 I.D. x 84 L mm (29/32 x 3 5/16")	Evergreen	02 EVERGREEN	46610-558
45 mL (1.5 oz.)	23 I.D. x 84 L mm (29/32 x 3 5/16")	Frego Red	02 FREGORED	46610-554
45 mL (1.5 oz.)	23 I.D. x 84 L mm (29/32 x 3 5/16")	Gold	02 GOLD	46610-580
45 mL (1.5 oz.)	23 I.D. x 84 L mm (29/32 x 3 5/16")	Light Brown	02 LTBROWN	46610-564
45 mL (1.5 oz.)	23 I.D. x 84 L mm (29/32 x 3 5/16")	Light Orange	02 LTORANGE	46610-550
45 mL (1.5 oz.)	23 I.D. x 84 L mm (29/32 x 3 5/16")	Light Red	02 LTRED	46610-556
45 mL (1.5 oz.)	23 I.D. x 84 L mm (29/32 x 3 5/16")	Lime Green	02 LIME	46610-560
45 mL (1.5 oz.)	23 I.D. x 84 L mm (29/32 x 3 5/16")	Pink	02 PINK	46610-568
45 mL (1.5 oz.)	23 I.D. x 84 L mm (29/32 x 3 5/16")	Purple	02 PURPLE	46610-572
45 mL (1.5 oz.)	23 I.D. x 84 L mm (29/32 x 3 5/16")	Royal Blue	02 ROYALBLUE	46610-542
45 mL (1.5 oz.)	23 I.D. x 84 L mm (29/32 x 3 5/16")	Silver	02 SILVER	46610-578
45 mL (1.5 oz.)	23 I.D. x 84 L mm (29/32 x 3 5/16")	Sky Blue	02 SKYBLUE	46610-544
45 mL (1.5 oz.)	23 I.D. x 84 L mm (29/32 x 3 5/16")	Turquoise	02 TURQ	46610-546
45 mL (1.5 oz.)	23 I.D. x 84 L mm (29/32 x 3 5/16")	White	02 WHITE	46610-576
45 mL (1.5 oz.)	23 I.D. x 84 L mm (29/32 x 3 5/16")	Wine	02 WINE	46610-570
45 mL (1.5 oz.)	23 I.D. x 84 L mm (29/32 x 3 5/16")	Yellow	02 YELLOW	46610-552

SCIENCEWARE® Jug Style Bottle, Bel-Art

Practical jug constructed from high-density polyethylene is ideal for storage. Equipped with a molded handle for easy transport.



10614-0001_silo

Capacity	Dia. x H	Cap Size	Supplier No.	Cat. No.
4 L (1.1 gal.)	16 x 29 cm (6 ⁵ / ₁₆ x 11 ⁷ / ₁₆ "	38 mm	106140001	47750-602

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VWR® COLLECTION

VWR® Polypropylene Carboys with Versatile Caps

VWR® Polypropylene Carboys are designed to provide users with a highly versatile container that maximizes storage efficiency and ease of use. The distinctive rectangular shape saves valuable bench space. Large handles on top of the container and molded handles in the base provide a full, secure grip to make lifting, carrying, and pouring easy. Specified models are available with a 120mm wide neck, which allows the user to reach inside the carboy for easier cleaning. Leakproof polypropylene versatile caps offer the ultimate in connection flexibility. Open caps (sold separately) are compatible with interchangeable adapters, which feature a wide variety of top-connections, including molded-in hose barbs and quick-connect hose barbs. All carboys have their material and volume clearly imprinted on the outside of the bottle, as well as large, easy to read metric graduation marks which are certified to ±5% accuracy.

VWR® Polypropylene Carboys are molded from a translucent USP Class VI, FDA grade, autoclavable resin, which offers good chemical resistance and heat stability. Polypropylene carboys, as well as all versatile caps, adapters, versatile barbs, and spigots may be autoclaved. The recommended autoclaving cycle is 20 minutes at 15 PSI and 121°C (250°F).



Capacity	Cap Size	Cat. No.
Polypropylene Carboys		
2.5 L (0.66 gal.)	80 mm	89199-166
5 L (1.3 gal.)	80 mm	89170-782
10 L (2.6 gal.)	80 mm	89170-786
20 L (5.3 gal.)	80 mm	89170-792
20 L (5.3 gal.)	120 mm	89170-794
40 L (10.6 gal.)	120 mm	89170-802
75 L (19.8 gal.)	120 mm	89217-554
Polypropylene Carboys with Spigot		
5 L (1.3 gal.)	80 mm	89170-784
10 L (2.6 gal.)	80 mm	89170-790
20 L (5.3 gal.)	80 mm	89170-798
20 L (5.3 gal.)	120 mm	89170-800
40 L (10.6 gal.)	120 mm	89170-806
Polypropylene Carboys with 7.6 cm (3") Sanitary Neck		
10 L (2.6 gal.)	80 mm	89170-788
20 L (5.3 gal.)	120 mm	89170-796
40 L (10.6 gal.)	120 mm	89170-804

Accessories		Cat. No.
Description		
Versatile Barb, Closed		89176-924
Versatile Barb, 1/4"		89176-926
Versatile Barb, 3/8"		89176-928
Versatile Barb, 1/2"		89176-930
Versatile Barb, 3/4"		89176-932
Versatile Barb, 3/4", Sanitary		89176-934
Cap Adapter, 80 mm, with Two 1/4" Hose Barbs		89170-842
Cap Adapter, 80 mm, with Three 1/4" Hose Barbs		89170-846

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Sample Collection Containers & Buckets

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Accessories	
Description	Cat. No.
Cap Adapter, 80 mm, with Four 1/4" Hose Barbs	89170-850
Cap Adapter, 80 mm, with Two 3/8" Hose Barbs	89170-844
Cap Adapter, 80 mm, with Three 3/8" Hose Barbs	89170-848
Cap Adapter, 80 mm, with Four 3/8" Hose Barbs	89170-852
Cap Adapter, 80 mm, with Two 1/4" Hose Barbs and Vent	89170-870
Cap Adapter, 80 mm, with Two 1/2" Hose Barbs and Vent	89170-872
Cap Adapter, 120 mm, with Two 1/4" Hose Barbs	89170-856
Cap Adapter, 120 mm, with Three 1/4" Hose Barbs	89170-860
Cap Adapter, 120 mm, with Four 1/4" Hose Barbs	89170-864
Cap Adapter, 120 mm, with Two 3/8" Hose Barbs	89170-858
Cap Adapter, 120 mm, with Three 3/8" Hose Barbs	89170-862
Cap Adapter, 120 mm, with Four 3/8" Hose Barbs	89170-866
Cap Adapter, Closed, 80 mm	89170-840
Cap Adapter, Closed, 120 mm	89170-854
Cap Adapter, Bioprocess, 120 mm	89170-868
Closed Cap, 80 mm	89170-828
Closed Cap, 120 mm	89170-836
Open Cap with Adapter, 80 mm, with Two 1/4" Hose Barbs and Vent	89170-832
Open Cap with Adapter, 80 mm, with Two 1/2" Hose Barbs and Vent	89170-834
Open Cap with Closed Adapter, 80 mm	89170-830
Open Cap with Closed Adapter, 120 mm	89170-838
Replacement T Spigot	89176-922

VWR COLLECTION

VWR® HDPE Carboys with Versatile Caps

VWR® HDPE Carboys are designed to provide users with a highly versatile container that maximizes storage efficiency and ease of use. The distinctive rectangular shape saves valuable bench space. Large handles on top of the container and molded handles in the base provide a full, secure grip to make lifting, carrying, and pouring easy. Specified models are available with a 120mm wide neck, which allows the user to reach inside the carboy for easier cleaning. Leakproof polypropylene versatile caps offer the ultimate in connection flexibility. Open caps (sold separately) are compatible with interchangeable adapters, which feature a wide variety of top-connections, including molded-in hose barsbs and quick-connect hose barsbs. All carboys have their material and volume clearly imprinted on the outside of the bottle, as well as large, easy to read metric graduation marks which are certified to ±5% accuracy.

VWR® HDPE Carboys are molded from a translucent USP Class VI, and FDA grade resin. They offer excellent chemical resistance, making them ideal for most buffers and reagents as well as powders and solids. Versatile caps, adapters, versatile barsbs, and spigots are constructed of polypropylene. The recommended autoclaving cycle for versatile caps, adapters, spigots, and versatile barsbs is 20 minutes at 15 PSI and 121°C (250°F).



Capacity	Cap Size	Cat. No.
HDPE Carboys		
2.5 L (0.66 gal.)	80 mm	89199-164
5 L (1.3 gal.)	80 mm	89170-762
10 L (2.6 gal.)	80 mm	89170-766
20 L (5.3 gal.)	80 mm	89170-770
20 L (5.3 gal.)	120 mm	89170-772
40 L (10.6 gal.)	120 mm	89170-778
75 L (19.8 gal.)	120 mm	89217-552
HDPE Carboys with Spigot		
5 L (1.3 gal.)	80 mm	89170-764
10 L (2.6 gal.)	80 mm	89170-768
20 L (5.3 gal.)	80 mm	89170-774
20 L (5.3 gal.)	120 mm	89170-776
40 L (10.6 gal.)	120 mm	89170-780

Accessories	
Description	Cat. No.
Versatile Barb, Closed	89176-924
Versatile Barb, 1/4"	89176-926
Versatile Barb, 3/8"	89176-928

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Accessories	
Description	Cat. No.
Versatile Barb, 1/2"	89176-930
Versatile Barb, 3/4"	89176-932
Versatile Barb, 3/4", Sanitary	89176-934
Cap Adapter, 80 mm, with Two 1/4" Hose Barbs	89170-842
Cap Adapter, 80 mm, with Three 1/4" Hose Barbs	89170-846
Cap Adapter, 80 mm, with Four 1/4" Hose Barbs	89170-850
Cap Adapter, 80 mm, with Two 3/8" Hose Barbs	89170-844
Cap Adapter, 80 mm, with Three 3/8" Hose Barbs	89170-848
Cap Adapter, 80 mm, with Four 3/8" Hose Barbs	89170-852
Cap Adapter, 80 mm, with Two 1/4" Hose Barbs and Vent	89170-870
Cap Adapter, 80 mm, with Two 1/2" Hose Barbs and Vent	89170-872
Cap Adapter, 120 mm, with Two 1/4" Hose Barbs	89170-856
Cap Adapter, 120 mm, with Three 1/4" Hose Barbs	89170-860
Cap Adapter, 120 mm, with Four 1/4" Hose Barbs	89170-864
Cap Adapter, 120 mm, with Two 3/8" Hose Barbs	89170-858
Cap Adapter, 120 mm, with Three 3/8" Hose Barbs	89170-862
Cap Adapter, 120 mm, with Four 3/8" Hose Barbs	89170-866
Cap Adapter, Closed, 80 mm	89170-840
Cap Adapter, Closed, 120 mm	89170-854
Cap Adapter, Bioprocess, 120 mm	89170-868
Closed Cap, 80 mm	89170-828
Closed Cap, 120 mm	89170-836
Open Cap with Adapter, 80 mm, with Two 1/4" Hose Barbs and Vent	89170-832
Open Cap with Adapter, 80 mm, with Two 1/2" Hose Barbs and Vent	89170-834
Open Cap with Closed Adapter, 80 mm	89170-830
Open Cap with Closed Adapter, 120 mm	89170-838
Replacement T Spigot	89176-922

VWR COLLECTION

VWR® HDPE Amber Carboys with Versatile Caps

VWR® Amber Carboys are designed to protect photo-sensitive materials, while providing users with a highly versatile container that maximizes storage efficiency and ease of use. The distinctive rectangular shape saves valuable bench space. Larger handles on top of the container and molded grips in the base provide a full, secure grip to make lifting, handling, and pouring easy. The optional wide neck allows the user to reach inside the carboy for easier cleaning. Carboy material and volume are clearly imprinted on the outside of the bottle as well as large, easy to read, metric graduation marks which are certified to ±5% accuracy.

Amber Carboys are made from HDPE, offering excellent chemical resistance and compliance with FDA requirements for food use. Versatile caps are constructed of polypropylene and are autoclavable at 121° C (250° F) for fifteen minutes.

Ordering Information: Carboys are supplied with a closed cap; open caps are sold separately.



Capacity	Cap Size	Cat. No.
2.5 L (0.66 gal.)	80 mm	89199-152
5 L (1.3 gal.)	80 mm	89199-154
10 L (2.6 gal.)	80 mm	89199-156
20 L (5.3 gal.)	120 mm	89199-160
40 L (10.6 gal.)	120 mm	89199-162

Accessories	
Description	Cat. No.
Versatile Barb, Closed	89176-924
Versatile Barb, 1/4"	89176-926
Versatile Barb, 3/8"	89176-928
Versatile Barb, 1/2"	89176-930
Versatile Barb, 3/4"	89176-932
Versatile Barb, 3/4", Sanitary	89176-934
Cap Adapter, 80 mm, with Two 1/4" Hose Barbs	89170-842
Cap Adapter, 80 mm, with Three 1/4" Hose Barbs	89170-846
Cap Adapter, 80 mm, with Four 1/4" Hose Barbs	89170-850
Cap Adapter, 80 mm, with Two 3/8" Hose Barbs	89170-844
Cap Adapter, 80 mm, with Three 3/8" Hose Barbs	89170-848

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Sample Collection Containers & Buckets

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Accessories	
Description	Cat. No.
Cap Adapter, 80 mm, with Four 3/8" Hose Barbs	89170-852
Cap Adapter, 80 mm, with Two 1/4" Hose Barbs and Vent	89170-870
Cap Adapter, 80 mm, with Two 1/2" Hose Barbs and Vent	89170-872
Cap Adapter, 120 mm, with Two 1/4" Hose Barbs	89170-856
Cap Adapter, 120 mm, with Three 1/4" Hose Barbs	89170-860
Cap Adapter, 120 mm, with Four 1/4" Hose Barbs	89170-864
Cap Adapter, 120 mm, with Two 3/8" Hose Barbs	89170-858
Cap Adapter, 120 mm, with Three 3/8" Hose Barbs	89170-862
Cap Adapter, 120 mm, with Four 3/8" Hose Barbs	89170-866
Cap Adapter, Closed, 80 mm	89170-840
Cap Adapter, Closed, 120 mm	89170-854
Cap Adapter, Bioprocess, 120 mm	89170-868
Closed Cap, 80 mm	89170-828
Closed Cap, 120 mm	89170-836
Open Cap with Adapter, 80 mm, with Two 1/4" Hose Barbs and Vent	89170-832
Open Cap with Adapter, 80 mm, with Two 1/2" Hose Barbs and Vent	89170-834
Open Cap with Closed Adapter, 80 mm	89170-830
Open Cap with Closed Adapter, 120 mm	89170-838
Replacement T Spigot	89176-922

VWR COLLECTION

VWR® Copolyester Carboys with Versatile Caps

VWR® Copolyester Carboys are designed to provide users with a highly versatile container that maximizes storage efficiency and ease of use. The distinctive rectangular shape saves valuable bench space. Large handles on top of the container and molded handles in the base provide a full, secure grip to make lifting, carrying, and pouring easy. Specified models are available with a 120mm wide neck, which allows the user to reach inside the carboy for easier cleaning. Leakproof polypropylene versatile caps offer the ultimate in connection flexibility. Open caps (sold separately) are compatible with interchangeable adapters, which feature a wide variety of top-connections, including molded-in hose barbs and quick-connect hose barbs. All carboys have their material and volume clearly imprinted on the outside of the bottle, as well as large, easy to read metric graduation marks which are certified to ±5% accuracy.

VWR® Copolyester Carboys are molded from a clear, BPA-free, USP Class VI, and FDA grade resin. Carboys are suitable for aqueous solutions, as well as most Life Science buffer solutions. Versatile caps, adapters, versatile barbs, and spigots are constructed of polypropylene. The recommended autoclaving cycle for versatile caps, adapters, versatile barbs, and spigots is 20 minutes at 15 PSI and 121°C (250°F).



Capacity	Cap Size	Cat. No.
Copolyester Carboys		
2.5 L (0.66 gal.)	80 mm	89199-168
5 L (1.3 gal.)	80 mm	89170-808
10 L (2.6 gal.)	80 mm	89170-812
20 L (5.3 gal.)	120 mm	89170-818
40 L (10.6 gal.)	120 mm	89170-824
Copolyester Carboys with Spigot		
5 L (1.3 gal.)	80 mm	89170-810
10 L (2.6 gal.)	80 mm	89170-814
20 L (5.3 gal.)	120 mm	89170-822

Accessories	
Description	Cat. No.
Versatile Barb, Closed	89176-924
Versatile Barb, 1/4"	89176-926
Versatile Barb, 3/8"	89176-928
Versatile Barb, 1/2"	89176-930
Versatile Barb, 3/4"	89176-932
Versatile Barb, 3/4", Sanitary	89176-934
Cap Adapter, 80 mm, with Two 1/4" Hose Barbs	89170-842
Cap Adapter, 80 mm, with Three 1/4" Hose Barbs	89170-846
Cap Adapter, 80 mm, with Four 1/4" Hose Barbs	89170-850
Cap Adapter, 80 mm, with Two 3/8" Hose Barbs	89170-844
Cap Adapter, 80 mm, with Three 3/8" Hose Barbs	89170-848
Cap Adapter, 80 mm, with Four 3/8" Hose Barbs	89170-852
Cap Adapter, 80 mm, with Two 1/4" Hose Barbs and Vent	89170-870
Cap Adapter, 80 mm, with Two 1/2" Hose Barbs and Vent	89170-872
Cap Adapter, 120 mm, with Two 1/4" Hose Barbs	89170-856

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Accessories		Cat. No.
Description		
Cap Adapter, 120 mm, with Three 1/4" Hose Barbs		89170-860
Cap Adapter, 120 mm, with Four 1/4" Hose Barbs		89170-864
Cap Adapter, 120 mm, with Two 3/8" Hose Barbs		89170-858
Cap Adapter, 120 mm, with Three 3/8" Hose Barbs		89170-862
Cap Adapter, 120 mm, with Four 3/8" Hose Barbs		89170-866
Cap Adapter, Closed, 80 mm		89170-840
Cap Adapter, Closed, 120 mm		89170-854
Cap Adapter, Bioprocess, 120 mm		89170-868
Closed Cap, 80 mm		89170-828
Closed Cap, 120 mm		89170-836
Open Cap with Adapter, 80 mm, with Two 1/4" Hose Barbs and Vent		89170-832
Open Cap with Adapter, 80 mm, with Two 1/2" Hose Barbs and Vent		89170-834
Open Cap with Closed Adapter, 80 mm		89170-830
Open Cap with Closed Adapter, 120 mm		89170-838
Replacement T Spigot		89176-922

Nalgene® Graduated Bucket, White High-Density Polyethylene, Thermo Scientific

Extra-heavy, molded, one-piece HDPE construction makes this pail more durable than a hard rubber bucket. Polyethylene-coated, bail handle and wide-lipped pour spout for easy handling and pouring. Graduated in pints and liters.



Capacity	Supplier No.	Cat. No.
9.5 L (2.5 gal.)	7002-0025	17307-008

Dairy Jugs, High-Density Polyethylene, Qorpak®

Natural HDPE Dairy Jugs are lightweight and are ideal for sampling and storeroom use. These inexpensive, general purpose containers provide an excellent moisture barrier and are impact resistant.



Capacity	Supplier No.	Cat. No.
946 mL (32 oz.)	PLA-06818	11311-199
240 mL (8 oz.)	PLA-06816	11311-518
480 mL (16 oz.)	PLA-06817	11311-520
3.8 L (1 gal.)	PLA-05565	82026-970

Nalgene® Dispensing and Storage Jugs, Polypropylene, Thermo Scientific

Autoclavable, leakproof jugs offer excellent chemical resistance. A large carrying handle allows for the use of rubber gloves for safe handling of corrosive liquids, as well as an offset pour spout for easy, accurate pouring. Leakproof. Autoclavable.



Note: Before autoclaving, set cap on top of jug without engaging the threads.

Ordering Information: Jugs are supplied with polypropylene screw closures. For replacement caps, see 16219-122 series

Capacity	Cap Size	Supplier No.	Cat. No.
3.8 L (1 gal.)	38-430	2221-0010	16093-011
8 L (2.1 gal.)	53B	2221-0020	16093-022

VWR® COLLECTION

VWR® Powder Funnels

Polypropylene funnels feature a 60° body angle and 58° internal rib angle for rapid filtration. External ribbing prevents air lock. Resistant to most chemicals, except strong oxidizing agents. Autoclavable.



Overall Height	Stem Length	Top I.D.	Stem O.D.	Cat. No.
67 mm	22 mm	65 mm	15.6 mm	414004-269
85 mm	29 mm	80 mm	16 mm	414004-270
85 mm	29 mm	100 mm	20.6 mm	414004-271
136.5 mm	33 mm	150 mm	26.7 mm	414004-272

Handled Square Jugs, High-Density Polyethylene, Qorpak®

128 ounce Natural HDPE Square Jugs feature durable HDPE. The space saving design on these jugs make them ideal for the workbench. These HDPE jugs provide an excellent moisture barrier and are impact resistant.

Colour	Natural
Material	HDPE

Description	Capacity	Cap Size	Supplier No.	Cat. No.
White Polypropylene F217 Lined	3.8 L (1 gal.)	38-400	PLC-03648	16081-056



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VWR® Analytical Funnels

Polypropylene analytical funnels feature a 60° body angle and 58° internal rib angle for rapid filtration. External ribbing prevents air lock. Resistant to most chemicals, except strong oxidizing agents. Autoclavable.

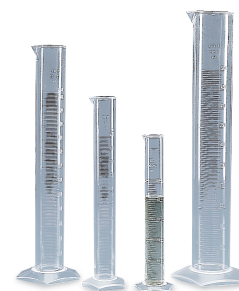
Overall Height	Stem Length	Top I.D.	Stem O.D.	Cat. No.
76 mm	49 mm	35 mm	6.4 mm	414004-273
85 mm	49 mm	45 mm	7.2 mm	414004-274
105 mm	60 mm	55 mm	7.2 mm	414004-275
114 mm	62 mm	65 mm	6.5 mm	414004-276
141 mm	77 mm	75 mm	6.9 mm	414004-277
164 mm	89 mm	90 mm	8.2 mm	414004-278
180 mm	96 mm	100 mm	9 mm	414004-279
278 mm	154 mm	160 mm	14 mm	414004-280



VWR® Graduated Cylinders, PMP

These polymethylpentene cylinders are transparent, shatterproof, and autoclavable. Withstand temperatures of 0 to 120°C (32 to 248°F) when used continuously. Withstand temperatures as high as 170°C (338°F) when used for short periods of time. Permanent graduations molded in. Meet stringent international quality criteria according to ISO 6706 certification. Not resistant to strong oxidizers, some hydrocarbons, and chlorinated solvents.

Capacity	Graduation Interval	Cat. No.
10 mL	0.2 mL	24774-604
25 mL	0.5 mL	24774-637
50 mL	1 mL	24774-660
100 mL	1 mL	24774-692
250 mL	2 mL	24774-728
500 mL	5 mL	24774-750
1000 mL	10 mL	24774-783
2000 mL	20 mL	24774-785



Nalgene® PMP Hydrometer Jar, Thermo Scientific

Hydrometer jar with cylinder of crystal-clear polymethylpentene (PMP). Superior chemical resistance and safety. Withstands continuous usage at up to 135°C. Autoclavable. Tube ungraduated and without identification. No overflow cup required for reading.

Broad plastic base provides good stability. Suitable for use as lactometer cylinder.

Capacity	O.D.	Supplier No.	Cat. No.
500 mL	50 mm (2")	6230-0500	24661-255



Sustainability with VWR

At VWR, we recognize that being a good corporate citizen is in the best interest of our company, our customers, and our community. Therefore, we follow the three primary goals as defined by the United Nations for sustainability: Environmental Protection, Social Impact, and Economic Growth. For more information, visit ca.vwr.com/sustainability



VWR® Disposable Polypropylene Spatulas

- Economical, Polypropylene, Single-Use Laboratory Spatulas
- Ideal for Transferring, Manipulating, and Mixing Materials
- Versatile Double-Ended Design
- Help Minimize Cross Contamination
- Autoclavable



Economical, disposable tools for transferring, collecting, and handling chemical and biological materials. Versatile double-ended design enables use as a spatula, spoon, scoop, scraper, stirring rod, or policeman. The unique hollow core minimizes thermal transfer for effective collection of liquid nitrogen frozen samples. Virgin polypropylene construction is resistant to dilute acids and bases. Autoclavable.

Antistatic micro spatula features two V-shaped, sharpened tip ends and is ideal for manipulating extremely small volumes of material. Standard spatulas feature a unique spatula/spoon end and a smaller scoop end. Macro spatula is 50% larger than the standard spatula and features a spatula/spoon end and a clump-busting pick end. The long shaft of the macro spatula eases access to material in larger containers.

ECO spatulas are produced with an additive that helps promote biodegradation in the polypropylene resin. Spatulas produced using this additive were found to biodegrade an average of 20% in the first 271 days of testing.

Biodegradation rates of ECO spatulas were measured according to the ASTM D5511 test method. Tests were conducted using 48% solids content; solids content in naturally wetter landfills range from 55% to 65%, while the driest landfills may reach 93%. Actual biodegradation rates will vary in biologically-active landfills according to the solids content, temperature, and moisture levels of the landfill.

All spatulas comply with FDA standards for food contact applications.

Ordering Information: The sterile spatulas are ETO sterilized and packed 10 per sterile pouch, 10 pouches per pack.

Length	Color	Type	Cat. No.
14 cm (5½")	Opaque	Micro, Antistatic	80081-194
14 cm (5½")	Opaque	ECO	89233-128
21 cm (8¼")	Blue	Standard	80081-188
21 cm (8¼")	Opaque	Standard	80081-190
21 cm (8¼")	Opaque	Standard, Sterile	89097-816
31 cm (12¼")	Green	Macro	80081-192

SCIENCEWARE® Sterileware® White Sterile Sampling Scoops, Bel-Art

Sterileware® scoops are the perfect shape and size for taking samples, especially from wide-mouth containers. Designed to hold various capacities, these one-piece sterile scoops are molded from high-impact polystyrene plastic, individually sealed and sterilized in a polyethylene bag, and ready for one-time use and disposal.

The 60mL (2oz.) and 120mL (4oz.) sampling scoops have a long handle that increases the distance between the hand and sample. When placed on a flat surface they remain upright and can be used as weighing boats.

Made from FDA grade materials, they are lot stamped for accurate lot tracing and shipped with a Certificate of Processing for Sterilization.



Capacity	Bowl Dimensions	Supplier No.	Cat. No.
12.7 cm (5")	7.8L x 4.1W x 2.9H cm (3 1/16 x 1 5/8 x 1 1/8")	369020000	56924-503
12.7 cm (5")	9.4L x 5.1W x 3.3H cm (3 11/16 x 2 x 1 5/16")	369040000	56924-536
5.6 cm (2 3/16")	13.5L x 5.4W x 4.9H cm (5 5/16 x 2 1/8 x 1 15/16")	369060000	56924-569

SCIENCEWARE® Sterileware® Long Handle Sterile Polystyrene Sampling Spoons, Bel-Art

Designed to gather small amounts of sample material, these sterile, polystyrene plastic sampling spoons are available in four bowl sizes. The long handle reaches easily into jars, bottles, and other confined areas, and minimizes the potential of personal contact with sampled material.

All spoons are FDA grade and safe for food, drug, and cosmetic contact. All sterile products are individually packaged, sterilized by gamma irradiation, lot stamped for accurate lot tracing, and shipped with a Certificate of Processing for Sterilization.



Capacity	Length	Supplier No.	Cat. No.
1/2 tsp.	17.8 cm (7")	369420000	56925-131
1 tsp.	17.8 cm (7")	369440000	56925-164
3 tsp.	17.8 cm (7")	369460000	56925-197

SCIENCEWARE® Sterileware® Red Sterile Sampling Scoops, Bel-Art

Sterileware® scoops are the perfect shape and size for taking samples, especially from wide-mouth containers. Designed to hold various capacities, these one-piece sterile scoops are molded from high-impact polystyrene plastic, individually sealed and sterilized in a polyethylene bag, and ready for one-time use and disposal.

The 60mL (2oz.) and 120mL (4oz.) sampling scoops have a long handle that increases the distance between the hand and sample. When placed on a flat surface they remain upright and can be used as weighing boats. The bright red color reduces the chance of these scoops being accidentally left behind in a sample.

The distinctive color can also serve as a code to avoid cross contamination and provide a contrasting background to better view light colored samples. Made from FDA grade materials, they are lot stamped for accurate lot tracing and shipped with a Certificate of Processing for Sterilization.



Capacity	Bowl Dimensions	Supplier No.	Cat. No.
60 mL (2 oz.)	2.5W x 7.6L x 3.8H cm (1 x 3 x 1 1/2")	369022002	47751-004

Puritan® Tongue Depressors, Puritan Medical Products

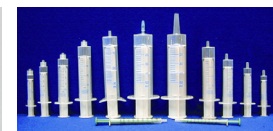
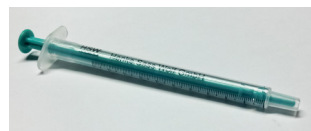
Smooth, splinter-free tongue blades are made from northern white birch. May be used as a clinical diagnostic aid, or as a stirrer for liquid medicine. Available in sterile or nonsterile.



Description	Dimensions	Sterility	Packaging	Supplier No.	Cat. No.
Standard	152L x 17.5W mm (6 x 0.688")	Nonsterile	Bulk Packed	704	CA62505-007

HSW® Norm-Ject® Sterile Luer-Slip Syringes, Air-Tite

Norm-Ject® syringes feature medical-grade plastics, including a polypropylene barrel and a polyethylene plunger. These inert syringes are sterile, latex-free and contain no rubber, silicone oil, or styrene. They do not contain contaminants often associated with disposables. Syringes can be used for sampling, mixing, and filtering. They are smooth drawing with a positive safety stop to prevent accidental spills. Accurate, easy-to-read increments.



Volume	Graduations	Supplier No.	Cat. No.
1 mL	0.01 mL	4010.200V0	53548-001
3 mL	0.1 mL	4020.000V0	53548-003
5 mL	0.2 mL	4050.000VZ	53548-005
10 mL	0.5 mL	4100.000V0	53548-006
20 mL	1.0 mL	4200.000V0	53548-008
30 mL	1.0 mL	4830001000	53548-024
50 mL	2.0 mL	4850001000	53548-010

BD™ Slip Tip Syringes without Needles, BD Medical

Syringes incorporate Luer slip tips. Syringe only.

Description	Volume	Supplier No.	Cat. No.
Syringe with Slip Tip	3 mL	309656	CABD309656
Syringe with Slip Tip	10 mL	301604	CABD301604
Syringe with Slip Tip	60 mL	309654	CABD309654

Bulk Syringes, Nonsterile, BD Medical



Clean, ready-to-use, nonsterile syringes are siliconized and assembled with scale.

Syringes can be autoclaved or gas sterilized out of poly bags. Before autoclaving, remove plunger rod from barrel.

Ordering Information: All syringes are bulk packed in double-wrapped poly bags. Sterile tip shield is sold separately.

Volume	Tip Style	Supplier No.	Cat. No.
1 mL	Slip	301025	CABD301025
5 mL	BD Luer-Lok®	301027	CABD301027
10 mL	BD Luer-Lok®	301029	CABD301029
10 mL	Slip	301030	CABD301030
20 mL	BD Luer-Lok®	301031	CABD301031
60 mL	BD Luer-Lok®	301035	CABD301035

Accessories		
Description	Supplier No.	Cat. No.
Sterile Tip Shield for Syringes	305819	CABD305819

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Syringes with BD Luer-Lok® Tip, BD Medical

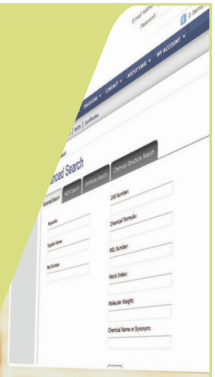
Sterile syringes feature an integral BD Luer-Lok® hub, assuring a secure, threaded connection to needles or IV ports. Syringe only. Individually wrapped.

Syringe **BD309695** is a BD Luer-Lok® tip control syringe featuring improved finger grips.



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Description	Volume	Supplier No.	Cat. No.
Syringe with Luer-Lok® Tip	1 mL	309628	CABD309628
Syringe with Luer-Lok® Tip	3 mL	309657	CABD309657
Syringe with Luer-Lok® Tip	10 mL	309604	CABD309604
Syringe with Luer-Lok® Tip	60 mL	309653	CABD309653

Catheter Tip Syringe, BD Medical

Sterile, single-use syringe with a catheter tip and tip shield.

Volume	Supplier No.	Cat. No.
60 mL	309620	CABD309620

Single-Use Needles, BD Medical

These sterile, nonpyrogenic, nontoxic needles are designed for slip tip, eccentric, or BD Luer-Lok® syringes. The inert hubs are color-coded, with the color repeated on packaging labels.

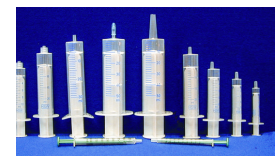
Ordering Information: Packed in sterile strips of five needles.



Description	Gauge	Needle Length	Color	Supplier No.	Cat. No.
Specialty-Use Needles	21	50.8 mm (2")	Green	305129	CABD305129
Specialty-Use Needles	16	38.1 mm (1 1/2")	Purple	305198	CABD305198

HSW® Norm-Ject® Sterile Luer-Lock Syringes, Air-Tite

These unique two-part syringes are latex-free and use no rubber or silicone lubricants, making them the ideal choice for any situation requiring an inert hypoallergenic syringe. They are particularly suited to IVF, embryo transfer, AI, chromatography, and other sensitive procedures.



Volume	Graduations	Supplier No.	Cat. No.
3 mL	0.1 mL	4020.X00V0	53548-017
5 mL	0.2 mL	4050.X00V0	53548-019
10 mL	0.5 mL	4100.X00V0	53548-023
20 mL	1 mL	4200.X00V0	53548-025
30 mL	1 mL	4830003000	80076-426
50 mL	2 mL	4850003000	80076-428

BD™ Tuberculin Syringes, BD Medical

Sterile, latex free syringes have bold, clear scale markings improve dosage accuracy. Thinner, smaller syringe size is easier to control and less threatening to patients.

Syringe is available individually or with a permanently attached 27G, 12.7mm (1/2") BD PrecisionGlide™ needle.

Description	Volume	Supplier No.	Cat. No.
Syringe Only	1 mL	309659	CABD309659

Puritan® Swab, Micro Cotton Head, Sterile, Puritan Medical Products

Sterile, disposable, cotton-tipped swab. Wood shaft. Individually wrapped in a peel open package.



Handle Length	Handle Width	Head Length	Head Width	Supplier No.	Cat. No.
152.4 mm (6.000")	2.1 mm (0.083")	15.8 mm (0.624")	2.5 mm (0.100")	25-806 1WC	CA10805-154

Puritan® Swabs, Medium Polyester Head, Sterile, Puritan Medical Products

Ideal for bacterial recovery applications. Water-repellent polyester tip keeps organisms on the surface. Plastic semi-flexible handle.

Ordering Information: Swab 10805-165 is individually wrapped; all other swabs are packaged two per wrapper, 1000 per pack, 2 packs per case.



Handle Length	Handle Width	Head Length	Head Width	Overall Length	Handle Color	Supplier No.	Cat. No.
152.4 mm (6.000")	3.2 mm (0.125")	17.4 mm (0.685")	5.2 mm (0.203")	169.8 mm (6.685")	White	25-806 1PD	CA10805-165

BD BBL™ Microbiological Specimen Collection and Transport Systems, BD Diagnostics

Keep samples viable during transport with convenient, self-contained BD CultureSwab™ and BD CultureSwab Plus™ systems. Both are ideal for sampling aerobes; BD CultureSwab Plus™ is also appropriate for strict anaerobes. Systems consist of tube, transport medium, and swab with integral cap. Tubes are made of unbreakable polypropylene and include a preattached data label and a tamper-evident seal. Swabs are rayon and are designed with an extra long shaft. Various media are available for vaginal, skin, wound, nasopharyngeal, ear, nose, throat, and eye specimens, as well as male urethral sampling. Systems are also available with Cary-Blair agar for fecal specimens and with a sterile swab in an empty tube for general specimen collection and transport. Each swab package is flushed with nitrogen gas to assure freshness of the medium throughout the product shelf life.



Each BD CultureSwab™ tube contains a swab with a polyurethane sponge. After sampling, the swab is returned to the tube and specimen is put in immediate contact with the medium and kept moist during transport.

Each BD CultureSwab Plus™ tube contains a 5mL column of Amies gel for maximum specimen protection and improved sample viability of anaerobes. Gel column also ensures that swab maintains a centralized position during transport. BD CultureSwab Plus™ tubes feature a special venturi hourglass design that helps prevent breakdown of the gel column during transport, minimizes bubbles and breaks in gel, and reduces the formation of air pockets that are harmful to fastidious bacteria.

Description	Application	Supplier No.	Cat. No.
BD CultureSwab™ Collection and Transport Systems			
Liquid Stuart, Single Swab	For vaginal, skin, wound, and throat specimens	220099	CA90001-040
Sterile, Single Swab	For general specimen laboratory use	220115	CA90001-050
Amies Gel without Charcoal, Single Swab	For vaginal, skin, wound, and throat specimens	220116	CA90001-052

BD BBL™ CultureSwab® EZ Collection and Transport System, BD Diagnostics

Medium-free systems prevent specimen dilution and contamination that can occur with devices containing transport media. Systems feature swabs with a special polyurethane open-celled structure that releases organisms from their environment and protects them during transport. Swabs have a 13.3cm (5 1/4") long shaft to reach tough sampling sites. They fit into round-bottom transport tubes that stand upright in traditional racks for easy transportation. The caps for the transport tubes are color-coded for easy identification and the double action seal prevents dried out or leaky samples for increased safety.



Description	Supplier No.	Cat. No.
Single Swab Format	220144	CA90001-090

Starswab® Anaerobic Transport System, Starplex®

Maintains the viability of a wide variety of microorganisms during transportation for up to 48 hours. Self-contained, sterile, ready-to-use system consists of a glass tube containing semi-solid, pre-reduced transport medium, and two rayon, scored swabs. Features an indicator that will turn lavender if the anaerobic condition is compromised. Pierceable, latex-free septum. Screw cap with rubber center allows fluids to be injected through with needle and syringe. Tube label shows code, lot number, and expiration date. Shelf life is 18 months. Swab length: 15.2 cm (6").



Dimensions, Tube	160.D. x 100L mm (5/8 x 3 15/16")
Tube Volume	10 mL

Description	Supplier No.	Cat. No.
Starswab® Anaerobic Transport System	S120-D	CA53594-821

Comprehensive Selection of Products

To offer our customers the best possible selection of products, VWR maintains strategic alliances with thousands of manufacturers. We offer the industry's widest, most objective range of cost-efficient products with the best support, and introduce thousands of new products every year to fulfill innovative requests. To order, call **1.800.932.5000** or visit **ca.vwr.com**.



VWR® Disposable Serological Pipets, Polystyrene, Sterile, Plugged

Polystyrene construction for sterile serological and tissue culture applications. Calibrated to deliver. Easy-to-read black ascending and descending graduations simplify fluid measuring and dispensing. All pipets feature negative graduations for extra working volume, and are color-coded for quick size identification. Accuracy is ±2% at full volume.

All pipets are in compliance with ASTM Standard E-934, Standard Specification for Serological Pipets, Disposable Plastic.

Ordering Information: Available in three packaging options: Individually wrapped in clear, easily recyclable, all-plastic polyethylene with pop-through opening for aseptic removal; individually wrapped in color-coded paper/plastic that reduces static cling; or bulk packed in polyethylene bags for high volume liquid handling applications.



Capacity	Color Code	Subdivisions	Packaging	Cat. No.
1 mL	Yellow	0.01 mL	Bulk Packed in Resealable Polyethylene Bags of 50	89130-904
1 mL	Yellow	0.01 mL	Individually Wrapped in All-Plastic Polyethylene	89130-882
1 mL	Yellow	0.01 mL	Individually Wrapped in Paper/Plastic	89130-892
2 mL	Green	0.01 mL	Bulk Packed in Resealable Polyethylene Bags of 50	89130-906
2 mL	Green	0.01 mL	Individually Wrapped in All-Plastic Polyethylene	89130-884
2 mL	Green	0.01 mL	Individually Wrapped in Paper/Plastic	89130-894
5 mL	Blue	0.1 mL	Bulk Packed in Resealable Polyethylene Bags of 50	89130-908
5 mL	Blue	0.1 mL	Individually Wrapped in All-Plastic Polyethylene	89130-886
5 mL	Blue	0.1 mL	Individually Wrapped in Paper/Plastic	89130-896
10 mL	Orange	0.1 mL	Bulk Packed in Resealable Polyethylene Bags of 50	89130-910
10 mL	Orange	0.1 mL	Individually Wrapped in All-Plastic Polyethylene	89130-888
10 mL	Orange	0.1 mL	Individually Wrapped in Paper/Plastic	89130-898
10 mL (Wide Tip)	Orange	0.1 mL	Bulk Packed in Resealable Polyethylene Bags of 50	89130-916
25 mL	Red	0.2 mL	Individually Wrapped in All-Plastic Polyethylene	89130-890
25 mL	Red	0.25 mL	Individually Wrapped in Paper/Plastic	89130-900
25 mL (Wide Tip)	Red	0.25 mL	Bulk Packed in Resealable Polyethylene Bags of 25	89130-912
50 mL	Purple	0.5 mL	Bulk Packed in Resealable Polyethylene Bags of 25	89130-914
50 mL	Purple	1 mL	Individually Wrapped in Paper/Plastic	89130-902

Blue Metal Detectable Fabric Bandages, Aso

These highly visible blue metal detectable bandages are great for food and pharmaceutical suppliers. Easy detection when put through a metal detector insures your products will not be contaminated. Also the flexible fabric contours easily to the body, is water resistant and makes it very comfortable when working.

All ASO Products are LATEX FREE

Ordering Information: We have many different materials and styles of wound care products. Please contact your VWR representative for more information.



Description	Size	Material	Supplier No.	Cat. No.
Blue Metal Detectable Fabric Fingertip Bandages 50 ct.	Fingertip (38 x 76 mm)	Fabric	CBD4432	89212-282
Blue Metal Detectable Fabric 1" x 3" Bandages 50 ct.	25 x 76 mm (1 x 3")	Fabric	CBD4433	89212-284
Blue Metal Detectable Fabric Knuckle Bandages 50 ct.	Knuckle (44 x 50 mm)	Fabric	CBD4435	89212-286

VWR® Self-Seal Sterilization Pouches

Sterilization pouches are made of surgical grade paper and blue polypropylene/polyester film. Easy-to-open lip closure, prefold self-adhesive strip, and flat seals ensure seal integrity. Color-coded indicators on every pouch. For use with steam or ETO.

Indicator ink conforms to ISO 11140-1. Manufactured in a facility with ISO 9001:2008, ISO 13485, and HACCP certifications.



Dimensions	Cat. No.
13.3 x 25.4 cm (5 1/4 x 10")	89140-800
19.1 x 33 cm (7 1/2 x 13")	89140-802
30.5 x 45.7 cm (12 x 18")	89140-804

Scienceware® Adjustable Handle Water Sample Dipper, Bel-Art

Designed for taking samples of water, sewage, wastes, and effluents from lakes, streams, tanks, or ponds, the water sample dipper provides a long reach for otherwise inaccessible spots. A 1000mL graduated polypropylene pitcher is mounted onto an aluminum tube handle. The handle has three parts, a 91cm (3') lower section, a 112cm (44") telescoping section, and an additional 91cm (3') upper section. Connections are made with spring buttons with adjusting steps, 15cm (6") apart. Handle diameter is 2.5cm (1") with 2.2cm (7/8") telescoping tube.



Description	Handle Length	Supplier No.	Cat. No.
Water Sample Dipper	91–274 cm (3–9') Adjustable	378070000	66175-065

Scienceware® Economy Dippers, Bel-Art

Designed for convenient sampling from tanks, vats, streams, ponds, lakes, etc., these economy dippers are lightweight, easy to use, and portable. The polypropylene cups have threaded fittings that screw onto the handle. Two pouring spouts on the 500mL (16oz.) dipper make it useful for left or right handed users to pour from either side. The high-density polyethylene handles are strong honeycomb tubes without inserts. They are ribbed for a sure grip. The end of the handle has a hook to facilitate hanging storage.



Description	Supplier No.	Cat. No.
Dipper with 91 cm (3') Handle	367840016	47727-676

VWR® COLLECTION

VWR® Certified Liquid-In-Glass Thermometers

Organic liquid. White back. Accurate to the requirements of ANSI/SAMA Z236.1-1983, ASTM, NIST, DKD and/or equivalent standards. Feature a Calibration Report stating corrections to one-tenth of the smallest division and individual serial number.



Tested and certified in an exclusive triple accredited/registered ISO/IEC 17025:2005, A2LA accredited laboratory against equipment whose calibration is traceable to NIST. Individually packaged.

Description	Range	Length	Accuracy	Certification Points	Divisions	Includes	Immersion	Cat. No.
Thermometers								
Certified Blue Spirit Thermometer	-20/110C	300 mm	1.5C	0, 50, 100C	1	—	76mm	89095-636
Certified Blue Spirit Thermometer	-20/110C	300 mm	1.5C	0, 50, 100C	1	—	total	89095-664

VWR® COLLECTION

VWR® Certified Liquid In Glass Thermometer, Enviro-Safe Liquid-In-Glass

VWR® Thermometers feature Enviro-Safe liquid- the only EnviroKleen™ certified environmentally friendly thermometer liquid available on the market. Thermometers feature a detailed Calibration Report stating corrections to one-tenth of the smallest division.



Each Thermometer is individually serialized and Includes a multi-language (English, French, German, Italian, Portuguese and Spanish) Statement of Accuracy indicating accuracy traceable to NIST and DKD/PTB. Thermometers are accuracy to the requirements of ANSI/SAMA Z236.1-1983, ASTM, NIST, DKD and/or equivalent standards. Each item is tested and calibrated in an exclusive triple accredited/registered ISO/IEC 17025:2005, A2LA accredited laboratory against equipment whose calibration is traceable to NIST and DKD/PTB. Individually packaged in a recyclable heavy-duty storage box. Glass Color: White. NIST, DKD/PTB.

Description	Range	Length	Accuracy	Certification Points	Divisions	Includes	Immersion	Cat. No.
Thermometers								
Certified Blue Spirit Thermometer	-1/61°C	420 mm (16½")	1°C	0, 37, 56°C	0.1	—	76 mm	89095-632

Custom Manufacturing

In addition to the products listed in our catalogue, Anachemia has the manufacturing capabilities to produce almost any chemical formulation or custom package size or type that your organization may need. Whether your goal is to reduce your staff's time spent preparing formulations used in your lab or to have product pre-packaged in single dose units, Anachemia's experienced chemical manufacturing personnel can assist you. Contact us at **(800) 361-0209** to request a quote on custom chemical products.



VWR® One-Piece Humidity/Temperature Thermometer

- Traceable® for Humidity
- Reads °F and °C
- Recorder Output Capability

Rugged, handheld, portable unit is ideal for monitoring conditions for chambers, cleanrooms, food processing, labs, and all humidity-sensitive manufacturing operations. Bright, four-digit, 1.3cm (1/2") high LCD is readable from up to 3.1m (10') away. Permits instant readings of relative humidity and temperature; sensor updates the display 2 1/2 times per second. Data hold switch freezes the display to capture reading.

Thermometer can be used with chart recorder, strip recorder, or computer that accepts millivolt signals. Output jack provides a 1mv signal per degree or per 1% relative humidity. Recorder output provides a hard copy record.

A serial numbered certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA to indicate instrument traceability to standards provided by the National Institute of Standards and Technology.

Ordering Information: One-year warranty. Supplied with a durable carrying case and replaceable 9V alkaline battery for one year of intermittent use or 100 hours of continuous readings.



Humidity Accuracy	±2.5% mid-range to ±5% elsewhere
Humidity Range	10 –95%
Humidity Resolution	0.1
Temperature range	-20 to 60°C (-4 to 140°F)
Temperature Resolution	0.1

L x H x D	Cat. No.
6.4 x 26 x 2.5 cm (2 1/2 x 10 1/2 x 1")	61161-380

VWR® Traceable™ Remote Alarm Humidity/Temperature Monitor

Ideal for routine measurements and round-the-clock monitoring of all quality-control needs and critical experimental requirements. Wall-mountable unit is for use in hoods, cleanrooms, coolers, stockrooms, incubators, environmental chambers, desiccators, and chemical storage areas. Unit features a remote temperature/humidity sensor with a 2.1m (7') cable. The triple display simultaneously shows high, low, and current humidity or high, low, and current temperature. The minimum/maximum memory feature for both temperature and humidity permits monitoring conditions overnight, on weekends, or over any time period. The alarm may be set in 1% RH and 1° increments. Alarm sounds when reading rises above or falls below set points. Unit also features a digital display with easy-to-view 1.3cm (1/2") high digits that can be read from 3.1m (10') away.

A serial numbered certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA to indicate instrument traceability to standards provided by the National Institute of Standards and Technology.

Ordering Information: Supplied with external humidity/temperature sensor; high-impact, chemical-resistant ABS plastic case; flip-open stand for lab bench; and one AAA battery.



Humidity Accuracy	±3 to 5% RH
Humidity Range	20–99% RH
Humidity Resolution	1% RH
Temperature Accuracy	±1°C
Temperature range	-50 to 70°C (-58 to 158°F)
Temperature Resolution	0.1°
Weight	113.4 g (4 oz.)

L x W x H	Cat. No.
10.8 x 7 x 1.9 cm (4 1/4 x 2 3/4 x 3/4")	21800-066

Dependable, Knowledgeable, and Friendly Service

From ordering to fulfillment to delivery, VWR has developed a talented team of experts to provide you with the support and expertise to get you what you need, whenever and wherever you need it. One call gets you a live, North-America based Customer Care Expert – not a voicemail. Call **1.800.932.5000** for more information.



VWR® Infrared Thermometer Guns with Laser Sighting

Thermometer guns are ideal for food preparation, pharmaceuticals, field use, electronics, and safety inspection. Guns take instant (<1 second) temperature readings of any surface. Unique design permits one-handed "point-and-shoot" readings. Laser-sighting beam permits precise target surface aim. Features include backlighting, data hold (freezes display reading), low-battery indicator, and °C/°F buttons. The field of view is 50:1, indicating that the gun can read a spot size of 15.2cm (6") from 7.6m (25') away.

Guns are available with fixed emissivity at 0.95 or adjustable emissivity from 0.10–1.00 in 0.01 steps. The adjustable emissivity gun (36934-182) features high/low alarms and memory for minimum, maximum, and average readings.

A serial-numbered certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA to indicate traceability to standards provided by the National Institute of Standards and Technology.

Ordering Information: Supplied with 9V battery.



Accuracy	±(1.5% + 2°C)		
H x W x D	22.9 x 10.2 x 5.7 cm (9 x 4 x 2 1/4")		
Resolution	0.1°		
Weight	284 g (10 oz.)		

Description	Range	Emissivity	Includes	Cat. No.
Thermometer				
Infrared Thermometer with Trigger Grip	-50 to 1000°C (-58 to 1832°F)	Adjustable	—	36934-182

VWR® Thermocouple Beaded Probes

For use with all Type-K thermometers in liquids, semi-solids, and air/gas. Probe **61161-372** has fluoropolymer resin insulation. Probe **77776-728** has a braided metal wire cable with smooth tip.



Description	Cat. No.
Low-Temperature Type-K Probe	23609-238
Stainless Steel Type-K Probe with Handle	61161-305
Beaded, Fast Response Type-K Probe	61161-372
High-Temperature Type-K Probe	77776-728

Sustainability with VWR

At VWR, we recognize that being a good corporate citizen is in the best interest of our customers, our community, and our company. Therefore, we follow the three primary goals as defined by the United Nations for sustainability: Environmental Protection, Social Impact, and Economic Growth. For more information, visit ca.vwr.com/sustainability.



VWR® Waterproof Food Thermometer

Ideal for food labs, food processing, food preparation, and brewing. Waterproof construction allows thermometer to be used in labs, plants, wash-down areas, and the field. Designed with membrane switches and ABS body, the unit eliminates dangers inherent in breakable glass and toxic mercury thermometers. Unique holder allows stainless steel probe to be positioned at any height while attached to beakers, stainless cylinders, or vats. Flat-profile design, light weight, and built-in pocket clip make it ideal to carry in a shirt pocket. Probe guard snaps to handle to extend overall length to 27.3cm (10 3/4"). Readings are updated every second. Features a bright 6mm (1/4") LCD display. Operates continuously for 18 months on a single battery.

A serial-numbered certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA to indicate traceability to standards provided by the National Institute of Standards and Technology.

Ordering Information: Supplied with silver-oxide battery, keychain, and lanyard.



Overall Length	18.4 cm (7 1/4")		
Resolution	0.1° from -20 to 200°C, 1° elsewhere		
Stem Dimensions	8.9L x 0.4dia. cm (3 1/2 x 5/32")		
Temperature range	-50 to 300°C (-58 to 572°F)		
Weight	28.4 g (1 oz.)		

Description	Accuracy	Includes	Cat. No.
Thermometer			
Waterproof Food Thermometer	±1.5°C	—	36934-166
Waterproof Food Thermometer	±0.4°C	—	36934-168

VWR® Food Thermometers

- Traceable®
- Shockproof
- Read in °C or °F
- Waterproof



Measure the internal temperature of stored, frozen, or prepared food. Feature piercing stainless steel probes ideal for use in soil, brewing, food processing, refrigeration, and pharmaceutical applications. Waterproof construction. Shockproof from 1.5m (5'). LCD display measures 6.3mm (1/4") high. Reading is updated every second.

A serial numbered certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA to indicate instrument traceability to standards provided by the National Institute of Standards and Technology.

Resolution	0.1° from -20 to 200°, 1° elsewhere
Stem Dimensions	20L x 5 dia. mm (8 x 3/16")
Temperature range	-50 to 280°C (-58 to 536°F)
Unit Dimensions	24L x 8.2W x 2.5D cm (9 1/2 x 3 1/4 x 1")

Description	Accuracy	Includes	Cat. No.
Thermometer			
Food Thermometer	±0.4°C between -20 and 100°C	—	37000-414
Food Thermometer	±1°C between -20 and 100°C	—	77776-718

VWR® Total-Range Digital Thermometer

- Traceable®
- Reads °C and °F

Fast-reading, easy-to-use thermometer switches from °C to °F at the touch of a button. Large display with 1.6cm (5/8") high digits is legible from 3m (10') away. Backlighting button permits reading in dark areas. Unit features a hold button that captures current reading. Microprocessor updates display twice per second.

Thermometer recalls minimum and maximum readings from any time period. Alarm function may be programmed in 1° increments to sound when temperature rises above or falls below set points. Count-up timer alarm may be set from 23 hours, 59 minutes, to 1 minute. Unit is constructed of shock-resistant ABS plastic. Water-resistant PVC protective case stops water, fumes, dirt, and dust. Uses all Type-K thermocouple probes. Batteries power unit for one year of routine use.

All Type-K probes may be used with liquids, air/gas, and semi-solids. Stainless steel probe has a 22.9cm (9") stem with a 3mm (1/8") diameter and a 102cm (40 1/8") cable. Beaded probe is 1.5mm (1/16") in diameter and features a 1.2m (4') fluoropolymer resin cable. The low-temperature stainless steel probe has a diameter of 4.3mm (3/16") and features a 30.5cm (12") stem with a 12.7cm (5") handle. Low-temperature probe is supplied with a 2.4m (8') expandable cable.

A serial numbered certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA to indicate thermometer traceability to standards provided by the National Institute of Standards and Technology.

Ordering Information: Supplied with a PVC protective casing with flip-out stand, a fast-response Type-K beaded probe (61161-372), and three AAA alkaline batteries.



Cable Length	1.2 m (4')
Dimensions	8.3W x 17.8H x 3.8D cm (3 1/4 x 7 x 1 1/2")
Temperature Accuracy	±1°C from -50 to 740°C, ±2°C at ends of range
Temperature Resolution	0.1° from -199.9° to 1369.9°C (-327.8 to 2497.8°F), 1° rest of range
Weight	0.2 kg (0.5 lbs.)

Description	Range	Includes	Cat. No.
Thermometer			
Total-Range Digital Thermometer	-200 to 1370°C (-328 to 2498°F) when used with appropriate probe	—	23609-232

Accessories		Cat. No.
Description		
Low-Temperature Type-K Probe		23609-238
Beaded, Fast Response Type-K Probe		61161-372
High-Temperature Type-K Probe		77776-728
Stainless Steel Type-K Probe		61161-281

Sample Collection

Temperature & pH Monitoring

BDH® DoubleZone Indicator Paper

These indicator papers show two different colors for each pH value at intervals of 0.3–1 pH unit, increasing the accuracy of readings and allowing good estimation of intermediate values. Paper comes on a plastic reel that will protect from many environmental influences, ensuring that the paper is always ready to use. Width: 10mm. Length: 5m.



pH Graduation	pH Range	Cat. No.
1.0	1.0–12.0	BDH35300.606
0.3	1.0–4.3	BDH35301.600
0.3	3.5–6.8	BDH35302.603
0.3	5.0–8.0	BDH35303.606
0.3	7.0–10.0	BDH70035.607
0.5	9.5–14.0	BDH70036.601

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BDH® pH Test Strips

Used for rapid pH testing directly at the point of interest, strips are always ready for immediate use. They are also suitable for careful testing of dangerous, poisonous, or aggressive liquids as the long handle prevents fingers from coming into contact with the sample. The dye is chemically bound to the test strip and cannot bleed into the sample, protecting against contamination and enabling measurement in weakly buffered or strongly alkaline solutions. Included color chart has 4 different color blocks for each pH value, enabling highly precise pH determination. Strips are available in 13 different pH ranges with accuracy down to 0.2 pH units. Dimensions: 85Lx6Wmm.

Ordering Information: Strips are packaged 100 to a box.



pH Graduation	pH Range	Supplier No.	Cat. No.
Universal Range			
1.0	0–14.0	92110.2047	BDH35309.606
Intermediate Ranges			
0.3/0.5	6.0–10.0	92122.2047	BDH83931.601
0.5	0–6.0	92115.2047	BDH35310.601
0.5	2.0–9.0	92118.2047	BDH83930.601
0.5	4.5–10.0	92120.2047	BDH35311.604
0.5	7.0–14.0	92125.2047	BDH35312.607
Narrow Ranges			
0.2/0.4	7.5–9.5	92160.2047	BDH35318.607
0.2/0.4	7.9–9.8	92170.2047	BDH83933.601
0.3	1.7–3.8	92190.2047	BDH35315.607
0.3	5.1–7.2	92140.2047	BDH83932.601
0.3/0.4	0.3–2.3	92180.2047	BDH35314.604
0.3/0.5	3.6–6.1	92130.2047	BDH35316.601
0.3/0.4	6.0–7.7	92150.2047	BDH35317.604

BDH® Reference Standard Buffers

Buffers are available as either colorless or colored solutions. They are all compared against and certified traceable to NIST Standard Reference Materials. Store at room temperature.

Ordering Information: Buffer set BDH5100-PK comes with two 500mL bottles each of the pH 4.00 red buffer, pH 7.00 yellow buffer, and pH 10.00 blue buffer.



Size	pH	Color	Packaging	Standard Reference Materials No.	Cat. No.
20 L (5.3 gal.)	10.00 ±0.02	Blue	Cubitainer		CABDH7190-20L
500 mL (16.9 oz.)	1.00 ±0.02	Colorless	Poly Bottle	185, 186	BDH5002-500ML
20 L (5.3 gal.)	1.00 ±0.02	Colorless	Cubitainer®	185, 186	BDH5004-20L

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Size	pH	Color	Packaging	Standard Reference Materials No.	Cat. No.
500 mL (16.9 oz.)	1.68 ±0.01	Colorless	Poly Bottle	185, 186	BDH5006-500ML
4 L (1.1 gal.)	1.68 ±0.01	Colorless	Poly Bottle	185, 186	BDH5008-4L
500 mL (16.9 oz.)	2.00 ±0.02	Colorless	Poly Bottle	185, 186	BDH5010-500ML
20 L (5.3 gal.)	2.00 ±0.02	Colorless	Cubitainer®	185, 186	BDH5012-20L
500 mL (16.9 oz.)	3.00 ±0.02	Colorless	Poly Bottle	185, 186	BDH5014-500ML
20 L (5.3 gal.)	3.00 ±0.02	Colorless	Cubitainer®	185, 186	BDH5000-20L
20 mL (0.7 oz.)	4.00 ±0.01	Red	Foil Package	185, 186	BDH5016-20ML
500 mL (16.9 oz.)	4.00 ±0.01	Red	Poly Bottle	185, 186	BDH5018-500ML
500 mL (16.9 oz.)	4.00 ±0.01	Colorless	Poly Bottle	185, 186	BDH5024-500ML
4 L (1.1 gal.)	4.00 ±0.01	Red	Poly Bottle	185, 186	BDH5020-4L
4 L (1.1 gal.)	4.00 ±0.01	Red	Cubitainer®	185, 186	BDH5022-4L
4 L (1.1 gal.)	4.00 ±0.01	Colorless	Poly Bottle	185, 186	BDH5026-4L
20 L (5.3 gal.)	4.00 ±0.01	Red	Cubitainer		BDH0198-20L
20 L (5.3 gal.)	4.00 ±0.01	Colorless	Cubitainer®	185, 186	BDH5028-20L
4 L (1.1 gal.)	4.45 ±0.05	Colorless	Poly Bottle	185, 186	BDH5030-4L
500 mL (16.9 oz.)	4.63 ±0.02	Colorless	Poly Bottle	185, 186	BDH5032-500ML
500 mL (16.9 oz.)	5.00 ±0.02	Colorless	Poly Bottle	185, 186	BDH5034-500ML
20 L (5.3 gal.)	5.00 ±0.02	Colorless	Cubitainer®	185, 186	BDH5036-20L
500 mL (16.9 oz.)	6.00 ±0.02	Colorless	Poly Bottle	185, 186	BDH5038-500ML
4 L (1.1 gal.)	6.00 ±0.02	Colorless	Poly Bottle	185, 186	BDH5098-4L
500 mL (16.9 oz.)	6.86 ±0.01	Colorless	Poly Bottle	185, 186	BDH5040-500ML
20 L (5.3 gal.)	6.86 ±0.01	Colorless	Cubitainer®	185, 186	BDH5042-20L
20 mL (0.7 oz.)	7.00 ±0.01	Yellow	Foil Package	186, 191, 192	BDH5044-20ML
500 mL (16.9 oz.)	7.00 ±0.01	Yellow	Poly Bottle	186, 191, 192	BDH5046-500ML
500 mL (16.9 oz.)	7.00 ±0.01	Colorless	Poly Bottle	186, 191, 192	BDH5052-500ML
4 L (1.1 gal.)	7.00 ±0.01	Yellow	Poly Bottle	186, 191, 192	BDH5048-4L
4 L (1.1 gal.)	7.00 ±0.01	Yellow	Cubitainer®	186, 191, 192	BDH5050-4L
4 L (1.1 gal.)	7.00 ±0.01	Colorless	Poly Bottle	186, 191, 192	BDH5054-4L
20 L (5.3 gal.)	7.00 ±0.01	Yellow	Cubitainer		BDH0194-20L
20 L (5.3 gal.)	7.00 ±0.01	Colorless	Cubitainer®	186, 191, 192	BDH5056-20L
500 mL (16.9 oz.)	7.38 ±0.02	Colorless	Poly Bottle	186, 191, 192	BDH5058-500ML
500 mL (16.9 oz.)	8.00 ±0.02	Colorless	Poly Bottle	186, 191, 192	BDH5060-500ML
500 mL (16.9 oz.)	9.00 ±0.02	Colorless	Poly Bottle	186, 191, 192	BDH5062-500ML
4 L (1.1 gal.)	9.00 ±0.02	Colorless	Poly Bottle	186, 191, 192	BDH5064-4L
500 mL (16.9 oz.)	9.18 ±0.01	Colorless	Poly Bottle	186, 191, 192	BDH5066-500ML
20 L (5.3 gal.)	9.18 ±0.01	Colorless	Cubitainer®	186, 191, 192	BDH5068-20L
20 mL (0.7 oz.)	10.00 ±0.02	Blue	Foil Package	186, 191, 192	BDH5070-20ML
500 mL (16.9 oz.)	10.00 ±0.02	Blue	Poly Bottle	186, 191, 192	BDH5072-500ML
500 mL (16.9 oz.)	10.00 ±0.02	Colorless	Poly Bottle	186, 191, 192	BDH5078-500ML
4 L (1.1 gal.)	10.00 ±0.02	Blue	Poly Bottle	186, 191, 192	BDH5074-4L
4 L (1.1 gal.)	10.00 ±0.02	Blue	Cubitainer®	186, 191, 192	BDH5076-4L
4 L (1.1 gal.)	10.00 ±0.02	Colorless	Poly Bottle	186, 191, 192	BDH5080-4L
20 L (5.3 gal.)	10.00 ±0.02	Blue	Cubitainer		BDH0190-20L
20 L (5.3 gal.)	10.00 ±0.02	Colorless	Cubitainer®	186, 191, 192	BDH5082-20L
500 mL (16.9 oz.)	11.00 ±0.02	Colorless	Poly Bottle	186, 191, 192	BDH5084-500ML
500 mL (16.9 oz.)	12.00 ±0.02	Colorless	Poly Bottle	186, 191, 192	BDH5086-500ML
4 L (1.1 gal.)	12.00 ±0.02	Colorless	Poly Bottle	186, 191, 192	BDH5088-4L
20 L (5.3 gal.)	12.00 ±0.02	Colorless	Cubitainer®	186, 191, 192	BDH5090-20L
500 mL (16.9 oz.)	12.45 ±0.02	Colorless	Poly Bottle	186, 191, 192	BDH5092-500ML
4 L (1.1 gal.)	12.45 ±0.02	Colorless	Poly Bottle	186, 191, 192	BDH5094-4L
20 L (5.3 gal.)	12.45 ±0.02	Colorless	Cubitainer®	186, 191, 192	BDH5096-20L
500 mL (16.9 oz.)	Buffer Set	Assorted	Poly Bottle		BDH5100-PK

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VWR® Traceable® Jumbo Refrigerator/Freezer Thermometers

- Traceable
- Temperature in °C and °F

Perfect for monitoring freezers, heating blocks, incubators, refrigerators, and water baths. Solid-state sensor probe eliminates mercury contamination. Display case is made of high-impact, chemical-resistant ABS plastic. Jumbo 3.8cm (1½”) digits are readable from 9m (30’). Display simultaneously shows maximum, minimum, and current temperatures. Alarm feature provides an alert when temperature rises above or falls below a programmable set point. Sensor and 3m (10’) micro-cable continue to perform accurately when submerged in water. Micro-cable permits refrigerator and freezer doors to close on it without affecting the seal.



Thermometer **89094-770** has a sensor probe that is sealed in a 2.5x6.4cm (1x2½”) bottle filled with GRAS nontoxic glycol. The solution insulates the sensor from rapid temperature changes, such as when refrigerator door is opened. Thermometer **89094-768** has a plain 5mmx1.9cm (¾x¾”) sensor probe. Thermometer **89094-772** has a sensor probe that is sealed in a 5mL bottle filled with GRAS nontoxic glycol. The bottle mimics vaccine temperature and fits in a vaccine tray.

Thermometers fulfill all CDC thermometer and vaccine thermometer requirements. A serial numbered certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA to indicate instrument traceability to standards provided by the National Institute of Standards and Technology.

Ordering Information: Supplied with AAA alkaline battery, flip-open stand, slot for wall mounting, Velcro® mounting strips, and magnetic mounting strips.

Accuracy	±1°C (1.8°F)
Display Case Dimensions	9.8 x 11.1 x 2.2 cm (37/8 x 43/8 x 7/8”)
Range	-50 to 70°C (-58 to 158°F)
Resolution	0.1°
Weight	113.4 g (4 oz.)

Description	Includes	Cat. No.
Thermometers		
Refrigerator/Freezer Thermometer	—	89094-770



VWR® Traceable® Waterproof Food HACCP Thermometer

- Traceable
- Temperature in °C and °F
- Stainless Steel Probe and No-Contact Infrared Option
- LED Indicators for HACCP Zones

This unit combines a non-invasive infrared thermometer with a piercing stainless steel probe thermometer. Three LED indicators for HACCP zones: under 4°C (40°F), between 4 to 60°C (40 to 140°F), and over 60°C (140°F). Easy-to-use membrane switches and rugged ABS body make this thermometer ideal for food labs, food processing, food preparation, and brewing. Waterproof construction allows use in wash-down and other food areas. Displays current temperature, minimum or maximum temperature, low battery, and emissivity value. Readings are updated every second. Large, bright LCD digits are 6mm (¼”).

A serial numbered certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA to indicate instrument traceability to standards provided by the National Institute of Standards and Technology.

Ordering Information: Supplied with battery.



Emissivity	0.95, adjustable from 0.1 to 1
Field of View Ratio	2.5:1
Folded Dimensions	16.5 x 2.5 x 3.8 cm (6½ x 1 x 1½”)
Infrared Accuracy	±0.6°C (1.1°F) between -5 to 65°C (2.3 to 149°F)
Infrared Range	-55 to 250°C (-67 to 482°F)
Probe Accuracy	±0.5°C (0.9°F) between -5 to 65°C (2.3 to 149°F)
Probe Dimensions	15.2 x 1.6 cm (6 x 5/8”)
Probe Range	-55 to 330°C (-67 to 626°F)
Resolution	0.2°C for -10 to 200°C; 0.5°F for 14 to 392°F; 1° for All Other Temperatures
Weight	99.2 g (3.5 oz.)

Description	Includes	Cat. No.
Thermometer		
Waterproof Food HACCP Thermometer	—	89094-774



VWR® Traceable® Digital-Bottle™ Refrigerator/Freezer Thermometer

Waterproof unit accurately monitors temperatures in freezers, refrigerators, incubators, and environmental chambers. Bottle and solution insulate stainless steel sensor from rapid changes, such as opening a refrigerator door. Digital display shows high, low, and current temperatures. Records minimum/maximum temperatures for any time period. Probe is sealed in bottle filled with nontoxic glycol.

A serial numbered certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA to indicate instrument traceability to standards provided by NIST (National Institute of Standards and Technology).

Ordering Information: Supplied with ABS plastic holder, double-backed tape, replaceable silver-oxide battery, and Velcro® fastener for attaching holder to any surface.



Dimensions	4.8W x 2.5D x 11.7H cm (1 ⁷ / ₈ x 1 x 4 ⁵ / ₈ ") Unit, 5.7W x 5.7D x 2.9H cm (2 ¹ / ₄ x 2 ¹ / ₄ x 1 ¹ / ₈ ") Holder
Resolution	0.1°
Temperature Range	-30 to 50 °C (-22 to 122 °F)
Weight	104.9 g (3.7 oz.)

Description	Accuracy	Bottle Contents	Includes	Cat. No.
Thermometers				
Digital-Bottle™ Refrigerator/Freezer Thermometer	± 1°C	Solution	—	89172-082

FoodChek™ MICT v2 Reader, FoodChek Systems

FoodChek's MICT magnetic nanotechnology uses a compact desktop based diagnostic reading device (the "MICT Reader") and reports the test results from disposable assay cassettes loaded with food samples that have been previously enriched for bacterial growth using another of FoodChek™'s products, the Actero™ Enrichment Media. The Patent Pending Actero™ Enrichment Media is used to incubate the food samples and enrich the growth of bacteria to allow the testing of pathogens common in foodborne diseases such as E. coli, Salmonella and Listeria.

The MICT Reader does not require a sophisticated technician in a commercial lab and is an automated, quantitative test that allows for tracking recording and printing of test results.

This allows for the fastest most accurate and easiest-to-use in-house pathogen testing systems in today's marketplace, is at least one order of magnitude more sensitive than PCR testing and a two order of magnitude higher than traditional (ELISA) tests and virtually eliminates human error.

FoodChek™'s MICT Cleaning Cassettes (sold separately) are specifically designed for use with it's MICT Readers. The cleaning cassettes are single use only.

FoodChek Systems Inc. recommends that the MICT reader should be cleaned after 20 tests or 1 month (whichever comes first) , in the event of an "invalid result", when you are changing pathogen tests. (e.g.: E. coli to Listeria spp.).

FoodChek™'s MICT Verification Cassette must be run at the start of the testing day and is specifically designed for use with the FoodChek™ MICT Reader.

You can verify the FoodChek MICT Reader's accuracy and performance with the supplied verification cassette. This cassette contains three stable, calibrated test regions on one test strip. They are used to verify the instrument's internal calibration (Accuracy) and performance (Noise).

The Verification Cassette is for multiple uses and only needs to be replaced when your VWR representative recommends to.

Ordering Information: All MICT Readers come with a power cord, power adaptor, 1 Stylus, CD User Manual, 3 rolls of thermo paper, 1 verification Cassette and a USB Memory Stick.



Description	Electrical	Supplier No.	Cat. No.
FoodChek™ MICT Reader	110V	FCR-004	CA97068-806

Accessories			
Description	Supplier No.	Cat. No.	
MICT Cleaning Cassettes	FCR002	CA97068-808	
MICT Verification Cassette	FCR-003	CA97068-810	

FRIO-Temp® Certified Precision Liquid-In-Glass Verification Thermometer, H-B Instrument Company

FRIO-Temp® Thermometers are used to verify temperatures in freezers, refrigerators, incubators and ovens with traceability to NIST, DKD/PTB and most standards through ILAC. Each item features PFA safety coating, a detailed Calibration Report stating corrections to one-tenth of the smallest division and individual serial number. Each item is tested and calibrated in H-B's exclusive triple accredited/registered ISO/IEC 17025:2005, A2LA accredited laboratory against equipment whose calibration is traceable to NIST and DKD/PTB. Individually packaged. Glass Color: White.

NIST, DKD/PTB



Description	Length	Accuracy	Bottle Contents	Certification Points	Divisions	Includes	Temperature Range	Supplier No.	Cat. No.
Thermometers									
Enviro-Safe® Thermometer Fill	125 mm (5")	0.5°C	Enviro-Safe® Liquid	6°C	0.5	—	-5/15°C for Refrigerator	602000600	89217-986
Enviro-Safe® Thermometer Fill	135 mm (5 1/8")	0.5°C	Enviro-Safe® Liquid	-15°C	0.5	—	-30/1°C for Freezer	602000700	89217-990
Enviro-Safe® Thermometer Fill	135 mm (5 1/8")	0.5°C	Enviro-Safe® Liquid	37°C	0.5	—	15/50°C for Incubator	602000900	89217-998
Toluene Thermometer Fill	145 mm (5 7/8")	1°C; 2°C from -1/-40°C; 2.5°C below -40°C	Glass Beads	-40°C	1	—	-90/25°C for Ultra Low Freezer	602000500	89217-984

FRIO-Temp® Precision Verification Thermometer, H-B Instrument Company

FRIO-Temp® Thermometers are used to verify temperatures in freezers, refrigerators, incubators and ovens with traceability to NIST, DKD/PTB and most standards through ILAC. Each item features PFA safety coating, a multi-language (English, French, German, Italian, Portuguese, Spanish) Statement of Accuracy indicating accuracy traceable to NIST and DKD/PTB and individual serial number. Each item is tested and calibrated in H-B's exclusive triple accredited/registered ISO/IEC 17025:2005, A2LA accredited laboratory against equipment whose calibration is traceable to NIST and DKD/PTB. Individually packaged. Class Color: White.

NIST, DKD/PTB

Description	Length	Accuracy	Divisions	Includes	Temperature Range	Supplier No.	Cat. No.
Thermometers							
FRIO-Temp® Precision Thermometer	135 mm (5 1/8")	1°F	1	—	60/120°F for Incubator	610041100	89217-970
FRIO-Temp® Precision Thermometer	135 mm (5 1/8")	0.5°C	0.5	—	15/50°C for Incubator	610040500	89218-000
FRIO-Temp® Precision Thermometer	145 mm (5 7/8")	1°C	1	—	20/130°C for Oven	610040600	89218-002
FRIO-Temp® Precision Thermometer	145 mm (5 7/8")	2°C; 4°C above 130°C	2	—	50/20°C for Oven	610040700	89218-004



VWR® COLLECTION

VWR® Water Resistant Electronic Thermometers

Feature a stainless steel temperature probe, probe cover with pocket clip, maximum/minimum memory, and 0.1 resolution. Supplied with a multi-language (English, French, German, Italian, Portuguese and Spanish) instructions and Statement of Traceability indicating accuracy traceable to NIST and DKD/PTB.

All thermometers are tested and calibrated in an exclusive triple accredited/registered ISO/IEC 17025:2005, A2LA accredited laboratory against equipment whose calibration is traceable to NIST and DKD/PTB.

CE marked. RoHS compliant. IP65.

Ordering Information: Thermometer 82021-156 includes Data Hold.



Range	Length	Accuracy	Cat. No.
-50 to 200°C (-58 to 392°F)	125 mm	2°C; 0.5°C from -20/70°C; 1 °C from 70/120°C and -50/-20°C	82021-156
-50 to 300°C (-58 to 572°F)	200 mm	0.5°C from -20/70°C; 1°C from 70/120°C; 2°C from -50/-20°C and 120/150°C; 4°C from 150/200°C; 6°C from 200/300°C	82021-164

Scientific Freezer Thermometer, Aga Marvel

Glass verification thermometer with blue organic fill in a 30 mL media bottle filled with glass beads. Idea to verify sample temperatures in freezers, with traceability to NIST.

Each item features individual serial numbers and a Statement of Accuracy indicating accuracy traceable to NIST. Tested and calibrated in an exclusive triple accredited/registered ISO/IEC 17025:2005, A2LA accredited laboratory against equipment whose calibration is traceable to NIST.



Range	Length	Accuracy	Divisions	Supplier No.	Cat. No.
-30 to 1°C	135 mm (5.3")	0.75°C	0.5°C	42243144	43300-358

SAMPLE PREPARATION

SOLID

LIQUID

STAINS & REAGENTS

CONSUMABLES & SUPPLIES

Sample Preparation

Solid

Stomacher® 80 Lab Blender Series, Seward

The Stomacher® 80 Biomaster and Stomacher® 80 microBiomaster laboratory paddle blenders provide small tissue processing solutions for clinical and life science microbiology. Capable of processing samples from 250 µL to 80 mL, the Stomacher® 80 range caters for the enhanced sensitivity of downstream processing techniques that demand smaller samples without reducing sample quality.

Stomacher® 80 technology provides fast, efficient and economical preparation of viable cell suspensions from tissue samples, with numerous methods documented for tissue biopsies, antibiotics, veterinary and forensic applications.

Enhanced Stomacher® 80 bag range features closure and strainer bag formats, double bags for biosafety and the new microBag for effective homogenisation and sample recovery below 1 mL volumes.

Stomacher® Lab Blenders offer 5000 fold improvement in cell recovery and viability from traditional methods with diluent-free sample processing. There is no cross contamination between samples, and processing time as well as paddle speed is adjustable.

Ordering Information: Machine comes with 3 year warranty and 10 year service support.



Description	Electrical	Sample Volume	Supplier No.	Cat. No.
Stomacher® 80 Biomaster	110V	5 mL - 80 mL	030010019	58976-902

Accessories

Description	Supplier No.	Cat. No.
Bag Rack for Stomacher® 80, Holds 10 Bags	BA6090	97035-486
Bag Opener for Stomacher® 80	BA6098	97035-490

Stomacher® 400 Lab Blender Series, Seward

Whatever method you use to enumerate and identify bacteria, yeasts and moulds in your laboratory, thorough reproducible homogenisation of the sample is the first and most critical step. The Stomacher® 400 meets the food safety and quality demands of today's microbiologists.

Numerous studies have demonstrated the Circulator enhancement as a positive benefit to pathogen testing procedures in traditional microbiology and PCR based techniques. The Stomacher® 400 is durable and reliable, and it offers improved organism recovery with the patented curved shape of the circulator paddles over older square paddle designs.

As the sample is crushed during operation, the patented curved shape of the Circulator paddles create a washing effect driving more organisms in suspension thereby providing a better homogenised sample for analysis. There is no risk of cross contamination between samples.

The Stomacher® 400 features a removable door for easy cleaning or paddle chamber, a countdown to processing time, and a programmable control panel with 'hands-free' auto-run available.

Ordering Information: Machine comes with 5 year warranty and 10 year service support.



Description	Electrical	Sample Volume	Supplier No.	Cat. No.
Stomacher® 400 Circulator	110V	80 mL - 400 mL	030010108	58976-916
Stomacher® 400 Circulator	240V	80 mL - 400 mL	030010159	58976-960

Accessories

Description	Supplier No.	Cat. No.
Bag Rack for Stomacher® 400, Holds 10 Bags	030021126	58976-936
Bag Rack for Stomacher® 400, Holds 1 Bag	BA6091	97035-484

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Consolidating orders helps reduce deliveries which can help reduce emissions/fossil fuels, lower packaging waste, save paper and energy, and may also help manage receiving costs and freight charges. Call **1.800.932.5000** or visit ca.vwr.com/sustainability for more information.



Stomacher® 3500 Lab Blender Series, Seward

The standard 3500 Stomacher® has been developed and widely used for blending large volumes such as powder, chocolate, and a wide range of food applications. It is also used to maintain the sterility of disposable products (e.g. diapers). Similarly the Stomacher® method developed through the Biowasher and Thermo are referenced throughout the world as the standard for analysis in their respective applications.

The Stomacher® 3500 utilizes a versatile range of tools for large volume blending and extraction. The Biowasher was originally designed to process the large volume of filter fibres derived from cartridge filters used in testing for waterborne parasites such as cryptosporidium and giardia.

An added heater element allows the Thermo to test for Trichinella, an essential documentation requirement for the sale of pork products. The Stomacher® technique is the world standard for this application.

Ordering Information: Machine comes with 3 year warranty and 10 year service support.



Description	Electrical	Sample Volume	Supplier No.	Cat. No.
Stomacher® 3500 Jumbo Lab Blender	110V	400 mL - 3500 mL	030010205	58976-941
Stomacher® 3500W Water Biowasher	110V	400 mL - 3500 mL	030010302	58976-950
Stomacher® 3500T Thermo Biowasher	110V	400 mL - 3500 mL	030010400	58976-952

Accessories				
Description		Supplier No.		Cat. No.
Bag Rack for Stomacher® 3500, Holds 3 Bags		BA6094		97035-488

Seven-Speed Laboratory Blenders, 1 L, Waring®

Seven speed, eight-button, solid-state SCR (silicon controlled rectifier) control provides speeds from 3500 to 22,000rpm (no-load). Heat resistant glass or stainless steel container with handle and two-piece vinyl and styrene lid. Motor housing and blade are epoxy coated.

UL listed.

Electrical	Material	Supplier No.	Cat. No.
120V	Glass	7012G	58977-227

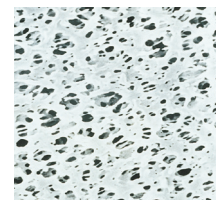
Accessories			
Description		Supplier No.	Cat. No.
Replacement Glass Container		CAC32	58979-018
Replacement Stainless Steel Container		501110	74800-002



GH Polypro (GHP) Membrane Disc Filters, Pall® Life Sciences

All-purpose, universal hydrophilic polypropylene membrane with maximum chemical compatibility when filtering both aqueous solutions and aggressive solvents. Low protein binding of GH Polypro membrane provides high recovery of critical proteinaceous samples. HPLC certified to assure that the filter will not add artifacts to analysis.

Diameter	Pore Size	Supplier No.	Cat. No.
47 mm	0.2 µm	66557	CA28140-037
47 mm	0.45 µm	66548	CA28143-288



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Extraction Thimbles, Cellulose, Whatman®

Thimbles made of high grade cotton cellulose. Smooth interior surface. Absolutely seamless. Fit most Soxhlet extraction devices. Single thickness thimbles have walls approximately 1mm thick. Double thickness thimbles have walls approximately 2mm thick which will not allow even the finest precipitates to pass through.



Length	Inner Diameter	Supplier No.	Cat. No.
Single Thickness			
60 mm	26 mm	2800-266	27730-117
65 mm	22 mm	2800-226	28297-430
80 mm	22 mm	2800-228	27730-060
80 mm	25 mm	2800-258	27730-081
80 mm	30 mm	2800-308	28297-436
80 mm	33 mm	2800-338	27730-128
90 mm	19 mm	2800-199	27730-048
94 mm	33 mm	2800-339	27730-140
100 mm	25 mm	2800-250	27730-106
100 mm	30 mm	2800-300	28297-432
118 mm	33 mm	2800-331	27730-142
123 mm	43 mm	2800-432	27730-161
180 mm	60 mm	2800-608	27730-183
Double Thickness			
94 mm	33 mm	2810-339	27732-145

Grade 3 Filter Paper, Whatman®

Slightly grained surface. Moderately thick. Highly absorbent. Highly suitable for use in Buchner funnels.



Flow rate	Medium
Particle Retention	6 µm
Porosity	Medium

Diameter	Supplier No.	Cat. No.
9.0 cm	1003-090	28456-065
11.0 cm	1003-110	28456-087
12.5 cm	1003-125	28456-101
15.0 cm	1003-150	28456-123
18.5 cm	1003-185	28456-145
24.0 cm	1003-240	28456-167

Barnstead/ThermoLyne Ashing Furnaces, Type 6000 and Type 30400, Thermo Scientific

Designed for coal and coke analysis procedures. Furnaces come with an adjustable gas flow meter/valve (0–80L/min.) located on the front for easy adjustment of airflow rate. Stainless steel manifold at rear chamber pre-warms incoming gases providing maximum temperature gradient of only ±3°C at 750°C (1382°F). Enlarged top vent connects easily to exhaust systems for ventilation of contaminants. Heating elements are enveloped in a custom formed refractory coating, reducing the damage caused by contaminant build-up on the resistant wire. Heating elements can be replaced individually, cutting down on operational cost.

Choose from two furnace sizes. Available with either 4- or 16-segment programmable controller. Type 6000 furnace meets ASTM D3174. CSA certified.



Ordering Information: Furnaces include a 3-wire cord with plug. Hearth plate and replacement heating elements available separately.

Description	Electrical	Chamber Dimensions	Overall Dimensions	Overall Dimensions	Maximum Temperature	Control Type	Weight	Supplier No.	Cat. No.
Type 6000 Furnace	208V, 4000W	32.5W x 17.3H x 25.4D cm (12 ²⁵ / ₃₂ x 6 ¹³ / ₁₆ x 10")	48.5W x 53.3H x 81.3D cm (19 ³ / ₃₂ x 21 x 32")	48.5W x 53.3H x 81.3D cm (19 ³ / ₃₂ x 21 x 32")	975°C (1787°F)	4-Segment	113.4 kg (250 lbs.)	F6028C-60-80	CA30616-165
Type 30400 Furnace	208V, 5500W	35.6W x 35.6H x 35.6D cm (14 x 14 x 14")	54.6W x 74.9H x 64.8D cm (21 ¹ / ₂ x 29 ¹ / ₂ x 25 ¹ / ₂ ")	54.6W x 74.9H x 64.8D cm (21 ¹ / ₂ x 29 ¹ / ₂ x 25 ¹ / ₂ ")	975°C (1787°F)	4-Segment	63.5 kg (140 lbs.)	F30428C-60-80	CA30631-266
Type 30400 Furnace	240V, 5500W	35.6W x 35.6H x 35.6D cm (14 x 14 x 14")	54.6W x 74.9H x 64.8D cm (21 ¹ / ₂ x 29 ¹ / ₂ x 25 ¹ / ₂ ")	54.6W x 74.9H x 64.8D cm (21 ¹ / ₂ x 29 ¹ / ₂ x 25 ¹ / ₂ ")	975°C (1787°F)	16-Segment	63.5 kg (140 lbs.)	F30430CM-60	CA30631-268

General-Purpose Filter Paper, Grade 595 and 995, Whatman®

A smooth-surfaced wood pulp paper. This moderately high wet-strength student grade paper is recommended for general non-critical filtrations.



Flow rate	Medium
Particle Retention	8–12 µm
Porosity	Medium

Grade	Size	Supplier No.	Cat. No.
595	15.0 dia. cm	10311612	28430-109

Grade 1 Qualitative Filter Paper, Whatman

These cellulose filters are used in qualitative analytical techniques to determine and identify materials. Prepleated qualitative filters are also available, which give improved flow rate and increased loading capacity compared to equivalent flat filters.

The most widely used filter paper for routine applications with medium retention and flow rate. Extended range of sizes includes 10 to 500 mm diameter circles and 460 x 570 mm sheets.



Flow rate	Medium
Particle Retention	11 µm
Porosity	Medium

Diameter	Supplier No.	Cat. No.
9.0 cm	1001-090	28450-081
11.0 cm	1001-110	28450-106
12.5 cm	1001-125	28450-128
15.0 cm	1001-150	28450-150
18.5 cm	1001-185	28450-160
24.0 cm	1001-240	28450-182
27.0 cm	1001-270	28450-207
32.0 cm	1001-320	28450-229

Grade 2 Filter Paper, Whatman®

Somewhat more retentive, slower and more absorbent than Grade No.1. For general-purpose lab applications, monitoring specific contaminants in the atmosphere, and soil testing.

Flow rate	Medium
Particle Retention	8 µm
Porosity	Medium



Diameter	Supplier No.	Cat. No.
9.0 cm	1002-090	28455-085
11.0 cm	1002-110	28455-110
12.5 cm	1002-125	28455-121
15.0 cm	1002-150	28455-142
18.5 cm	1002-185	28455-164
24.0 cm	1002-240	28455-186
32.0 cm	1002-320	28455-222
38.5 cm	1002-385	CA28455-244

Grade 4 Filter Paper, Whatman®

For rapid filtering with excellent retention of coarse particles and gelatinous precipitates. Good rapid filter for routine cleanup of biological fluids or organic extracts during analysis. Also for air pollution monitoring where high flow rates are required.



Flow rate	Fast
Particle Retention	20–25 µm
Porosity	Coarse

Diameter	Supplier No.	Cat. No.
9.0 cm	1004-090	28460-063
11.0 cm	1004-110	28460-085
12.5 cm	1004-125	28460-110
15.0 cm	1004-150	28460-120
18.5 cm	1004-185	28460-142
24.0 cm	1004-240	28460-164
32.0 cm	1004-320	28460-171

Grade 5 Filter Paper, Whatman®

Very useful in clarification of cloudy solutions. Widely used in water analysis.

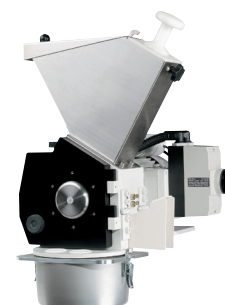


Flow rate	Slow
Particle Retention	2.5 µm
Porosity	Fine

Diameter	Supplier No.	Cat. No.
9.0 cm	1005-090	28462-069
11.0 cm	1005-110	28462-080
12.5 cm	1005-125	28462-104
15.0 cm	1005-150	28462-126
18.5 cm	1005-185	28462-148
24.0 cm	1005-240	28462-160
32.0 cm	1005-320	28462-166

Pulverisette® 15 Laboratory Cutting Mill, Fritsch

This easy-to-use cutting mill is designed for grinding soft to medium-hard dry samples including fibrous materials, plastics, and materials containing cellulose. Grinding chamber is accessed by two knurled screws, allowing easy cleaning of chamber and grinding parts. Recyclable, torsion-resistant aluminum housing includes a removable hinged cover.



Ordering Information: Manufacturer's limited two-year warranty. Cutting tool set, collecting vessel and sieve insert are not supplied; these required accessories are ordered separately. For more information, contact your VWR representative. Optional accessories include replacement collecting vessels and support stands. For cutting mills with other voltages or sieve inserts made of chromium-free steel, contact your VWR representative.

Dimensions	42W x 48D x 69H cm (16 ¹¹ / ₃₂ x 18 ⁷ / ₈ x 27 ⁵ / ₃₂ "
Electrical	100–120V, 50–60Hz
Feed Size	<=60 mm
Final Fineness	0.25–6 mm
Rotor Speed	2800–3400 rpm
Weight	42 kg (92 lbs.)

Description	Supplier No.	Cat. No.
Pulverisette 15® Laboratory Cutting Mill	15.4010.00	89033-414

Accessories				
Description	Size	Hole Type	Supplier No.	Cat. No.
Stainless Steel Sieve Insert	0.25 mm	Trapezoidal	45.1200.10	89033-766
Stainless Steel Sieve Insert	0.5 mm	Trapezoidal	45.1210.10	89033-768
Stainless Steel Sieve Insert	0.75 mm	Trapezoidal	45.1220.10	89033-770
Stainless Steel Sieve Insert	1 mm	Trapezoidal	45.1230.10	89033-772
Stainless Steel Sieve Insert	1.5 mm	Trapezoidal	45.1240.10	89033-774
Stainless Steel Sieve Insert	2 mm	Trapezoidal	45.1250.10	89033-776
Stainless Steel Sieve Insert	4 mm	Square	45.2200.10	89033-778
Stainless Steel Sieve Insert	6 mm	Square	45.2210.10	89033-780
Collecting Vessel	3.5 L		15.4400.00	89033-782
Collecting Vessel with Filter Hose	60 L		15.4560.00	89033-784
Cutting Tool Set: Rotor with Rotating and Fixed Knives, Tool Steel			15.4603.00	97040-134
Cutting Tool Set Rotor with Rotating and Fixed Knives, Chromium-Free Tool Steel			15.4602.00	97040-136
Universal Support Stand			45.5820.00	97040-138

VWR® Syringe Filters

- Manufacturing Process Certified to ISO 9001
- Biosafe According to Class VI Plastics Tests

Polypropylene, nylon, and PTFE membranes are ideal for sample preparation and small volume chemical filtration. Syringe filters with cellulose acetate or polyethersulfone membranes are ideal for sterile filtration of buffers, tissue culture media or additives, and other biologicals. The polyethersulfone membrane offers high flow rates. Nonsterile syringe filters are excellent for HPLC applications. Each filter has a female Luer-lock inlet and a male slip Luer outlet.

Note: PTFE membrane is hydrophobic and not intended for use with aqueous solutions.

Ordering Information: Nylon membrane filters **89041-306** are bulk packed in bags of 1000, four bags to a case.



Description	Diameter	Membrane Material	Pore Size	Sterility	Cat. No.
Syringe Filters with Acrylic Housing	25 mm	Cellulose Acetate	0.2 µm (Retains 107 Brevundimonus diminuta per cm ² according to modified ASTM F838-83)	Nonsterile	CA28145-475
Syringe Filters with Acrylic Housing	25 mm	Cellulose Acetate	0.2 µm (Retains 107 Brevundimonus diminuta per cm ² according to modified ASTM F838-83)	Sterile	CA28145-477
Syringe Filters with Acrylic Housing	25 mm	Cellulose Acetate	0.45 µm	Nonsterile	CA28145-479
Syringe Filters with Acrylic Housing	25 mm	Cellulose Acetate	0.45 µm	Sterile	CA28145-481
Syringe Filters with Acrylic Housing	25 mm	Polyethersulfone	0.2 µm (Retains 107 Brevundimonus diminuta per cm ² according to modified ASTM F838-83)	Nonsterile	CA28145-499
Syringe Filters with Acrylic Housing	25 mm	Polyethersulfone	0.2 µm (Retains 107 Brevundimonus diminuta per cm ² according to modified ASTM F838-83)	Sterile	CA28145-501
Syringe Filters with Acrylic Housing	25 mm	Polyethersulfone	0.45 µm	Nonsterile	CA28145-503
Syringe Filters with Acrylic Housing	25 mm	Polyethersulfone	0.45 µm	Sterile	CA28145-505
Syringe Filters with Polypropylene Housing	13 mm	PTFE	0.2 µm	Nonsterile	CA28145-491
Syringe Filters with Polypropylene Housing	13 mm	PTFE	0.45 µm	Nonsterile	CA28145-493
Syringe Filters with Polypropylene Housing	25 mm	Nylon	0.2 µm	Nonsterile	CA28145-487
Syringe Filters with Polypropylene Housing	25 mm	Nylon	0.45 µm	Nonsterile	CA28145-489
Syringe Filters with Polypropylene Housing	25 mm	Polypropylene	0.2 µm	Nonsterile	CA28145-483
Syringe Filters with Polypropylene Housing	25 mm	Polypropylene	0.45 µm	Nonsterile	CA28145-485
Syringe Filters with Polypropylene Housing	25 mm	PTFE	0.2 µm	Nonsterile	CA28145-495
Syringe Filters with Polypropylene Housing	25 mm	PTFE	0.45 µm	Nonsterile	CA28145-497

Acrodisc® PSF Syringe Filters, Pall® Life Sciences

These premium syringe filters combine the benefits of a multi-layered prefiltration device with an automation-certified filter housing. The polypropylene housing has been designed to withstand high operating pressures. Some models feature a GxP borosilicate glass prefilter, which provides two to four times the throughput of standard glass fiber prefilter devices, allowing for quick and easy filtration of difficult-to-filter samples.

The GHP hydrophilic polypropylene (GH Polypro) membrane is ideal for maximum chemical compatibility, fast flow rates, low protein binding, and low levels of UV-absorbing extractables. The glass fiber prefilter allows for quick and easy filtration for difficult-to-filter aqueous solutions. PVDF membrane has excellent compatibility with aggressive acids and alcohols. The PES (hydrophilic polyethersulfone) membrane is available in a special ion chromatography design or with a GxP prefilter. The hydrophilic nylon membrane has excellent compatibility with esters, bases, and alcohols, and requires no prewetting. The hydrophobic PTFE membrane with polypropylene support offers exceptional chemical and temperature compatibility and is ideal for gas, organic solutions, air filtration, or venting. Also available are the hydrophilic Versapor® (acrylic copolymer on a nonwoven support) and the hydrophilic HT Tuffryn® (polysulfone) membranes.

The Automation Preferred certification assures smooth operation and worry-free performance 24 hours a day in automated workstations. HPLC certified. With female Luer inlet and male slip outlet connections.

Ordering Information: Syringe filters packed in cases of 200 are available in four packs of 50 or in an AutoPack™ format. The AutoPack™ format consists of eight tubes with 25 syringe filters stacked on top of each other, which is specifically designed for the Caliper™ robotic workstations.



Membrane Type	Pore Size	Supplier No.	Cat. No.
GHP	0.2 µm	AP-4564	CA28143-272
Supor/GxP Prefilter	0.45 µm	AP-4425	CA28143-372
Supor/GxP Prefilter	0.45 µm	AP-4426	CA28143-374
GHP	0.45 µm	AP-4560	CA28143-922

Acrodisc® Syringe Filters with Supor® Membrane, Sterile, Pall® Life Sciences

Ideal for cell culture and biological research. Supor® polyethersulfone membrane provides high throughput and fast flow rate. Female Luer-lock inlet and standard male slip Luer outlet. Color-coded modified acrylic housing. PF version (28144-009 and 28139-702) includes built-in prefilter for increased throughput of difficult-to-filter liquids.



Diameter	Color	Pore Size	Sterility	Supplier No.	Cat. No.
25 mm	Blue	0.2 µm	Sterile	4612	CA28143-310
25 mm	Clear	0.45 µm	Sterile	4614	CA28143-312
25 mm	Green	0.8 µm	Sterile	4618	CA28143-314
32 mm	Blue	0.2 µm	Sterile	4652	CA28143-350
32 mm	Clear	0.45 µm	Sterile	4654	CA28143-352
32 mm	Blue/Green	0.8/0.2 µm	Sterile	4658	CA28143-400
32 mm	Red	1.2 µm	Sterile	4656	CA28150-958

VacuCap™ and VacuCap™ PF Bottle-Top Filters, Sterile, Pall® Life Sciences

For sterilization or clarification of laboratory fluids. Ideal for cell culture and serum-containing media. Supor® (hydrophilic polyethersulfone) membrane provides high flow rates. Draws directly from mix vessel and filters directly into the desired container, minimizing transfer steps. Accepts a variety of collection vessels. VacuCap 60 is designed for volumes of 500mL to 1L; VacuCap 90 is designed for volumes of 1–5L. VacuCap PF devices have built-in prefilter that increases throughput of viscous or particulate solutions, such as serum-containing media.

Polyester membrane support. Effective filtration area of VacuCap 60 PF filters is 30cm²; VacuCap 90 PF filters, 60cm². Acrylic housing. Sterile. Filters **28143-340** and **28143-338** come with individual attached tubing for each filter device. All other filters come with one piece of tubing per ten filter devices.

Ordering Information: The feedline accessory kit includes tubing and a glass sinker.



Description	Diameter	Pore Size	Supplier No.	Cat. No.
VacuCap™ 60 PF	60 mm	0.8/0.2 µm	4638	CA28139-704
VacuCap™ 90 PF	90 mm	0.8/0.2 µm	4628	CA28139-706
VacuCap™ 90	90 mm	0.2 µm	4622	CA28143-315
VacuCap™ 90	90 mm	0.45 µm	4624	CA28143-317
VacuCap™ 60	60 mm	0.2 µm	4632	CA28143-332
VacuCap™ 60	60 mm	0.45 µm	4634	CA28143-334

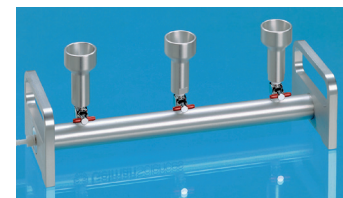
Accessories

Description	Supplier No.	Cat. No.
Feeding Accessory Kit	4623	CA28143-318

Filter Funnel Manifolds, Pall® Life Sciences

For use in vacuum filtration of liquids for analysis of microbiological or particulate contamination, and scintillation studies.

Can accommodate 25 or 47mm filter funnels. On/off control valves allow independent operation of each station. Anodized aluminum manifold body construction is especially suited for applications where chemical compatibility is critical and easy clean-up is desired. Chrome-plated brass valves. Viton® rubber valve O-rings and 6.4mm (1/4") nylon adapter. Stainless steel, 6.4mm (1/4") MNPT drain plugs.



Description	L x W x H	Supplier No.	Cat. No.
6-Place	82.5 x 15 x 16 cm	15403	CA28145-348
3-Place	41 x 15 x 16 cm	15402	CA28145-349

Magnetic Filter Funnels, 47 mm, Pall® Life Sciences

For vacuum filtration of liquids, especially for the analysis of aqueous samples for microbiological and particulate contamination using the Membrane Filter (MF) Technique. The Magnetic Filter Funnel is ideal for use with a filter funnel manifold or side-arm vacuum flask using a rubber stopper connection.

Dual magnets ensure a tight, no-leak seal between the funnel cylinder and base, eliminating the need for cumbersome clamps. The design allows one-handed operation and prevents possible twisting and tearing of the filter membrane. A ridge on the base guides and holds membrane in position. Forcep access points provide easy retrieval of the filter. Durable, chemically resistant polyphenylsulfone plastic construction resists breaking. The cylinder is marked with external graduations for ease in measuring sample volume and to ensure a smooth inner surface for rinsing. Washable, autoclavable, and UV compatible.

Ordering Information: Filters not included. For more filtration options, search Sentino™ Magnetic Filter Funnel, Sentino™ Filter Dispenser, and Sentino™ Microbiology Pump. Contact your VWR representative for more information.



Description	Capacity	Supplier No.	Cat. No.
Funnel	300 mL	4242	CA28143-550
Funnel	500 mL	4238	CA28150-496

Accessories			
Description		Supplier No.	Cat. No.
Funnel Cylinder, 300 mL, For use with 47 mm dia. Filter		4243	CA28143-520
Base without Support Screen, For use with 47 mm dia. Filter		4244	CA28143-522
Lid Kit (for 300 mL Funnels only)		4246	CA28143-524
Funnel Cylinder, 150 mL, For use with 47 mm dia. Filter		4248	CA28143-526
Funnel Cylinder, 500 mL, For use with 47 mm dia. Filter		4254	CA28143-528
Support Screen, Polyphenylsulfone		87264	CA28144-484
Support Screen, Stainless Steel		4235	CA28144-908

Vacushield™ Vent Device, Pall® Life Sciences

This disposable protective device is designed to prevent aqueous liquid and aerosol contamination of vacuum pumps or aspiration suction systems.

It provides high air flow rates and bacterial retention without loss of pump efficiency. Non-sterile. May be autoclaved or ETO sterilized. Hydrophobic, microporous PTFE membrane filter achieves 99.97% D.O.P. retention (0.3µm particles in air). Features polypropylene housing and 6.4–12.7mm (1/4–1/2") stepped hose barb connections (internal taper accepts male Luer fitting). Dimensions: 7.3dia.x8.2Lcm (27/8x31/4").



Dimensions	Supplier No.	Cat. No.
7.3 dia. X 8.2L cm	4402	CA55095-006

Nanosep® and Nanosep® MF Centrifugal Devices, Pall® Life Sciences

Use Nanosep® devices to concentrate, purify, and desalt peptides, proteins, oligonucleotides, DNA, and RNA. Also use to clean up molecules following labeling reactions and PCR. Use Nanosep® MF to isolate DNA from agarose gel slices; separate proteins, oligonucleotides, and RNA from acrylamide gels; and clarify samples before HPLC analysis. Both centrifugal devices give rapid sample processing with typical recoveries >90%. Tubes are constructed of polypropylene. Filter medium of Nanosep® is Omega™ (low protein-binding, modified polyethersulfone) on polyethylene substrate. Filter medium of Nanosep® MF is Bio-Inert® modified nylon.

Nonsterile. May be sanitized by filtering 70% ethanol through the device prior to use. Requires a centrifuge with fixed-angle rotor that accepts 1.5mL microcentrifuge tubes.



Effective Filtration Area	0.28 cm ²
Final Concentrate Volume	15 µL
Maximum Centrifugal Force	14,000 g
Maximum Sample Volume	500 µL
Operating Temperature Range	0 to 40°C (32 to 104°F)
Overall Length	4.5 cm (1 ²⁵ / ₃₂ "), with cap

Description	MWCO	Color	Pore Size	Supplier No.	Cat. No.
Nanosep® MF	—	Wildberry	0.45 µm	ODM45C35	CA29300-648
Nanosep® MF	—	Wildberry	0.45 µm	ODM45C33	CA29300-640
Nanosep® MF	—	Wildberry	0.45 µm	ODM45C34	CA29300-644

MicroFunnel® Vacuum Manifolds, Pall® Life Sciences

Specifically designed to operate with MicroFunnel filter funnels when performing the MF technique for microbial analysis. The simple, efficient operation is conducted by placing filter funnels directly onto the manifold, adding liquid, and turning on the vacuum. No adapters or rubber stoppers are required to hold filter funnels in place. The manifold body is constructed of anodized aluminum. Autoclavable at 121 to 123°C (250 to 253°F), 1.0bar (15psi) for 15–20 minutes.

Three-place and six-place manifolds are capable of processing multiple samples simultaneously. Valves are manufactured from chrome-plated brass. Valve O-rings are made of Viton® rubber. Drain plugs are constructed of stainless steel, and feature 6.4mm (1/4") MNPT outlets. These materials make the unit easy to clean and compatible with a wide variety of chemicals. Hose barb adapter: 6.4mm (1/4") nylon.

One-place manifold has a stainless steel hose barb adapter: 6.4mm (1/4") straight, 3.2mm (1/8") MNPT.



Description	Dimensions	Supplier No.	Cat. No.
Three-Place Manifold	40.6W x 15.2D x 10.7H cm (16 x 6 x 4 ^{7/32} ")	15411	CA89030-434
Six-Place Manifold	82.6W x 15.2D x 10.7H cm (32 ^{1/2} x 6 x 4 ^{7/32} ")	15413	CA97003-752

Acro® 50 Vent Filters, Pall® Life Sciences

Reusable, in-line filters with 50mm hydrophobic PTFE membranes in polypropylene housing. Large surface area provides greater throughput. Ideal for venting bioreactors, fermentation tanks, and carboys. Also for filtration of aggressive solvents and sterile gas purging of culture vessels. Stepped hose-barb connectors fit 6.4–12.7mm (1/4–1/2") I.D. tubing. Autoclavable at 121°C (250°F) for 30 minutes.

Ordering Information: All are individually packaged, except for 28144-111, which comes in six bags of 12.



Diameter	7.3 cm (2 ^{7/8} ")
Effective Filtration Area	19.6 cm ²
Maximum Ambient Temperature	130°C (266°F)
Maximum Operating Pressure	4.1 bar (60 psi) at ambient temperature
Overall Length	8.2 cm (3 ^{1/32} ")

Connector	Pore Size	Supplier No.	Cat. No.
Stepped Hose Barb	0.2 µm	4251	CA28143-558
Stepped Hose Barb	0.2 µm	4250	CA28144-111
Stepped Hose Barb	0.45 µm	4256	CA28143-616
Stepped Hose Barb	1 µm	4258	CA28143-718

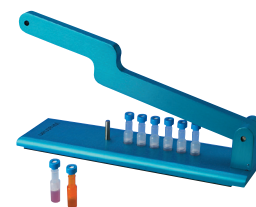
Mini-UniPrep™ Syringeless Filters, Whatman®

These syringeless filters provide a faster, easier way to remove particulates from samples being prepared for high performance liquid chromatography (HPLC) analysis. Ideal for routine analysis, composite assays, content uniformity, protein precipitation, solubility and dissolution testing, and sample filtration. Filters feature a polypropylene housing and cap. Choose from a variety of filter media to meet specific application needs: depth polypropylene (dp polypropylene) membranes for aqueous or organic solvents with high flow and loading capacity; glass microfiber (GMF) membranes for particulate-laden liquids; nylon membranes for filtering samples containing aqueous or organic solvents with a pH range of 3–10; PES membranes for biological samples requiring low protein binding media; polypropylene membranes for general filtration media and solvent-based samples; PTFE membranes for chemically aggressive samples; and low nonspecific protein binding PVDF membranes for aqueous solutions.

Filters with slit PTFE/silicone septa are ideal for high throughput automation and instruments with sensitive sampling needs. These filters eliminate coring problems associated with repeated sampling and minimize sample evaporation.

The amber filters prevent photo degradation of light-sensitive samples. The amber chamber and plunger are translucent to allow visual inspection.

Compressors **28137-778** and **14227-832** press the plunger through the liquid with ease. They are ideal for viscous or particulate-laden samples.



Filtering Capacity	0.5 mL
Maximum Ambient Temperature	50°C (120°F)

Description	Membrane Material	Pore Size	Supplier No.	Cat. No.
Filters with Standard Cap	PTFE	0.2 µm	UN503NPEORG	CA14224-778
Filters with Standard Cap	Nylon	0.2 µm	UN203NPENYL	14224-976
Filters with Standard Cap	Nylon	0.2 µm	UN503NPENYL	14224-730
Filters with Standard Cap	Nylon	0.45 µm	UN203NPUNYL	28137-754
Filters with Standard Cap	PES	0.2 µm	UN203NPEPES	14224-914
Filters with Standard Cap	PES	0.2 µm	UN503NPEPES	14224-746
Filters with Standard Cap	PES	0.45 µm	UN503NPUPES	28137-776
Filters with Standard Cap	Polypropylene	0.2 µm	UN203NPEPP	14224-930
Filters with Standard Cap	Polypropylene	0.2 µm	UN503NPEPP	14224-762

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Description	Membrane Material	Pore Size	Supplier No.	Cat. No.
Filters with Standard Cap	Polypropylene	0.45 µm	UN203NPUPP	28137-766
Filters with Standard Cap	Polypropylene	0.45 µm	UN503NPUPP	28137-768
Filters with Standard Cap	PTFE	0.2 µm	UN203NPEORG	14224-946
Filters with Standard Cap	PTFE	0.45 µm	UN203NPUORG	28137-758
Filters with Standard Cap	PTFE	0.45 µm	UN503NPUORG	28137-760
Filters with Standard Cap	PVDF	0.2 µm	UN203NPEAQU	14224-978
Filters with Standard Cap	PVDF	0.2 µm	UN503NPEAQU	14224-794
Filters with Standard Cap	PVDF	0.45 µm	UN203NPUAQU	28137-762
Filters with Standard Cap	PVDF	0.45 µm	UN503NPUAQU	28137-764
Filters with Standard Cap	RC	0.2 µm	UN203NPERC	97015-564
Filters with Standard Cap	RC	0.2 µm	UN503NPERC	97034-680
Filters with Standard Cap	RC	0.45 µm	UN203NPURC	97015-562
Filters with Slit Septa Cap	Nylon	0.2 µm	US203NPENYL	12000-526
Filters with Slit Septa Cap	Nylon	0.2 µm	US503NPENYL	12000-536
Filters with Slit Septa Cap	Nylon	0.45 µm	US203NPUNYL	83009-814
Filters with Slit Septa Cap	Nylon	0.45 µm	US503NPUNYL	83009-828
Filters with Slit Septa Cap	PES	0.2 µm	US203NPEPES	12000-530
Filters with Slit Septa Cap	PES	0.2 µm	US503NPEPES	12000-540
Filters with Slit Septa Cap	PES	0.45 µm	US203NPUPES	83009-818
Filters with Slit Septa Cap	PES	0.45 µm	US503NPUPES	83009-832
Filters with Slit Septa Cap	Polypropylene	0.2 µm	US203NPEPP	12000-532
Filters with Slit Septa Cap	Polypropylene	0.2 µm	US503NPEPP	12000-542
Filters with Slit Septa Cap	Polypropylene	0.45 µm	US203NPUPP	83009-820
Filters with Slit Septa Cap	Polypropylene	0.45 µm	US503NPUPP	83009-834
Filters with Slit Septa Cap	PTFE	0.2 µm	US203NPEORG	12000-528
Filters with Slit Septa Cap	PTFE	0.2 µm	US503NPEORG	12000-538
Filters with Slit Septa Cap	PTFE	0.45 µm	US203NPUORG	83009-816
Filters with Slit Septa Cap	PTFE	0.45 µm	US503NPUORG	83009-830
Filters with Slit Septa Cap	PVDF	0.2 µm	US203NPEAQU	12000-524
Filters with Slit Septa Cap	PVDF	0.2 µm	US503NPEAQU	89233-790
Filters with Slit Septa Cap	PVDF	0.45 µm	US203NPUAQU	83009-808
Filters with Slit Septa Cap	PVDF	0.45 µm	US503NPUAQU	83009-822
Amber Filters with Standard Cap	Nylon	0.2 µm	UN203APENYL	84009-506
Amber Filters with Standard Cap	Nylon	0.45 µm	UN203APUNYL	89233-786
Amber Filters with Standard Cap	PES	0.2 µm	UN203APEPES	84009-510
Amber Filters with Standard Cap	PES	0.45 µm	UN203APUPES	83009-804
Amber Filters with Standard Cap	Polypropylene	0.2 µm	UN203APEPP	84009-512
Amber Filters with Standard Cap	Polypropylene	0.45 µm	UN203APUPP	83009-806
Amber Filters with Standard Cap	PTFE	0.2 µm	UN203APEORG	84009-508
Amber Filters with Standard Cap	PTFE	0.45 µm	UN203APUORG	83009-802
Amber Filters with Standard Cap	PVDF	0.2 µm	UN203APEAQU	84009-504
Amber Filters with Standard Cap	PVDF	0.45 µm	UN203APUAQU	84009-514

Accessories			
Description	Supplier No.		Cat. No.
Six-Position Compressor	CR0000006		14227-832

SolVac® Filter Holder, Pall® Life Sciences

Use the SolVac® filter holder to remove contaminating particulates and degas mobile phase solvents. Filter up to 4L of mobile phase solvent at once. Simply place the SolVac® filter holder on a receiving vessel rated for vacuum applications, connect to a vacuum source, place the inlet tube into the solvent to be filtered, and begin filtration. Durable polypropylene construction provides chemical compatibility for common HPLC mobile phase solvents such as methanol, acetonitrile, and tetrahydrofuran. Magnetic seal eliminates membrane shifting or tearing problems. Accepts 47mm filter. Not autoclavable.

Ordering Information: SolVac® filter holder comes complete with 0.6m (2') feedline tubing, thumb clamp, sinker, vacuum port adapter, two membrane seal gaskets, and two seal gaskets.

Effective Filtration Area	10.2 cm ²
Maximum Vacuum	635 mm Hg (25 in. Hg)
Operating Temperature	Tapered Barb Hose: Ambient, not to exceed 38 °C (100 °F)
Vacuum Port Adapter	6.3ü7.9 mm (1/4ü5/16")

Description	Supplier No.	Cat. No.
SolVac® Filter Holder	4020	CA28145-283

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Accessories		
Description	Supplier No.	Cat. No.
Replacement Feedline Tubing, 1.2 m (4')	4022	CA28145-285
Replacement Seal Gaskets	4023	CA28145-287
Replacement Membrane Seal Gasket Kit	4025	CA28145-289
Replacement Sink Kit	4026	CA28145-291
Replacement Clamp Kit	4028	CA28145-293

AcroPak™ Capsules with Supor® Membrane, Sterile, Pall® Life Sciences

Designed for fast processing and final filtration of aqueous samples. Supor (polyethersulfone, PES) membrane is ideal for solutions requiring low protein binding. Built-in prefilter provides efficient processing and enhanced throughput of difficult to filter solutions.

Capsules are 100% integrity tested to assure sterile filtrate. Versions with 0.1 µm Supor membrane ensures sterile, mycoplasma-free cell culture media.

Applications include large-volume media preparation, pilot-scale manufacturing and sterile filtration of buffers or biological solutions. These capsules are suitable for point-of-use filtration for laboratory water.

AcroPak Capsules with Supor Membrane are sterilized by gamma irradiation and individually bagged. If desired, autoclave once only prior to use at 121 to 123°C (250 to 253°F) for a maximum of 20 min. Filter **28143-969** (PN 12941) cannot be autoclaved.

Endotoxin Level: <0.25 EU/mL using Limulus Amoebocyte Lysate (LAL) test.

Biological Safety: Passes United States Pharmacopeia (USP) Biological Reactivity Test, In Vivo <88> .

Ordering Information: For additional information and specifications, see the Product Literature link.



Display Name	-
Maximum Operating Pressure	Continuous; 4.1 bar (60 psi) at ambient temperature
Maximum Operating Temperature	60°C (140°F) at 2.1 bar (30 psi)

Description	Diameter	Length	Effective Filtration Area	Inlet/outlet Connections	Pore Size	Supplier No.	Cat. No.
AcroPak™ 500 Capsule Filters							
AcroPak™ 500 Capsule Filter	6.9 cm (2.7")	14.5 cm (5.7"); nominal, without filling bell	500 cm ²	6.4 -12.7 mm (1/4-1/2") Stepped Hose Barb; Filling Bell on Outlet	0.1/0.1 µm	12997	CA28146-183
AcroPak™ 500 Capsule Filter	6.9 cm (2.7")	14.5 cm (5.7"); nominal, without filling bell	500 cm ²	6.4 -12.7 mm (1/4-1/2") Stepped Hose Barb; Filling Bell on Outlet	0.2/0.2 µm	12995	CA28146-181
AcroPak™ 500 Capsule Filter	6.9 cm (2.7")	14.5 cm (5.7"); nominal, without filling bell	500 cm ²	6.4 -12.7 mm (1/4-1/2") Stepped Hose Barb; Filling Bell on Outlet	0.8/0.2 µm	12991	CA28146-177
AcroPak™ 500 Capsule Filter	6.9 cm (2.7")	14.5 cm (5.7"); nominal, without filling bell	500 cm ²	6.4 -12.7 mm (1/4-1/2") Stepped Hose Barb; Filling Bell on Outlet	0.8/0.45 µm	12993	CA28146-179
AcroPak™ 1000 Capsule Filters							
AcroPak™ 1000 Capsule Filter	6.9 cm (2.7")	19.3 cm (7.6"); nominal, without filling bell	1000 cm ²	6.4 -12.7 mm (1/4-1/2") Stepped Hose Barb; Filling Bell on Outlet	0.1/0.1 µm	12999	CA28146-185
AcroPak™ 1000 Capsule Filter	6.9 cm (2.7")	19.3 cm (7.6"); nominal, without filling bell	1000 cm ²	6.4 -12.7 mm (1/4-1/2") Stepped Hose Barb; Filling Bell on Outlet	0.2/0.2 µm	12996	CA28146-182
AcroPak™ 1000 Capsule Filter	6.9 cm (2.7")	19.3 cm (7.6"); nominal, without filling bell	1000 cm ²	6.4 -12.7 mm (1/4-1/2") Stepped Hose Barb; Filling Bell on Outlet	0.8/0.2 µm	12992	CA28146-178
AcroPak™ 1000 Capsule Filter	6.9 cm (2.7")	19.3 cm (7.6"); nominal, without filling bell	1000 cm ²	6.4 -12.7 mm (1/4-1/2") Stepped Hose Barb; Filling Bell on Outlet	0.8/0.45 µm	12994	CA28146-180
AcroPak™ 1500 Capsule Filters							
AcroPak™ 1500 Capsule Filter	6.9 cm (2.7")	22.9 cm (9.0"); nominal, without filling bell	1500 cm ²	12.7 mm (1/2") Straight Hose Barb; No Filling Bell on Outlet	0.2/0.2 µm	12686	CA28146-198
AcroPak™ 1500 Capsule Filter	6.9 cm (2.7")	22.9 cm (9.0"); nominal, without filling bell	1500 cm ²	12.7 mm (1/2") Straight Hose Barb; No Filling Bell on Outlet	0.8/0.2 µm	12675	CA28146-196

Accessories		
Description	Supplier No.	Cat. No.
0.8/0.2 µm Supor® Membrane	12941	CA28143-969

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AcroPak™ 200 Capsule Filters, Sterile, Pall® Life Sciences

Economical, disposable capsule filters feature either a Supor® (hydrophilic polyethersulfone) membrane for high throughput processing or a Fluorodyne® II (hydrophilic polyvinylidene fluoride, PVDF) membrane for fast processing of clean batches. Filter media is sealed in a polypropylene housing by thermal bonding for low extractables. Filters can be used for sterile filtration of large batches of media and buffers as well as for point-of-use filtration for lab water systems. The 100% integrity-tested capsules have an upstream vent that prevents vapor lock.

Filters are ideal for efficient processing of liquid volumes from 5L to 20L. Filters with Supor® membranes are particularly suitable for quick processing of difficult-to-filter solutions. The 0.8µm pore size membrane acts as a prefilter, extending the life of the 0.2µm pore size membrane, when viscous or particulate-laden solutions are being processed.

Inlet/outlet hose connections are 6.4–12.7mm (1/4–1/2") stepped hose barbs, except filter **87003-890**, which has a 6.4mm (1/4") MNPT inlet and a 6.4–12.7mm (1/4–1/2") tapered hose barb outlet. All filters are sterilized by gamma irradiation. Filters are intended for single use only. All filters come with a polycarbonate filling bell.

Ordering Information: For additional information and specifications, see the Product Literature link.



Description	Effective Filtration Area	Supplier No.	Cat. No.
0.8/0.2 µm Supor® Membrane	200 cm ² (31 in. ²)	12941	CA28143-969

MicroCheck™ II Beverage Monitors, Pall® Life Sciences

Easy to use, versatile, disposable filter funnels are ideal for microbial analysis. Polypropylene construction eliminates compatibility or extractables issues. Ergonomically designed units allow for removal of funnel cylinder with a squeeze. The base and cover convert to a petri dish for culturing the membrane in place, or the membrane can be cultured on a separate petri dish. Unit fits directly onto a standard manifold, or a stopper/adaptor combination can be used for other manifold styles. Gamma irradiated. Bulk packed. Volume: 100mL.



Membrane Color/Grid	Membrane Size	Supplier No.	Cat. No.
White	0.45 µm	4761	CA87004-338
White	0.8 µm	4762	CA87004-340
Black	0.45 µm	4763	CA87004-342
Black	0.8 µm	4764	CA87004-344

Acrodisc® MS Syringe Filters, Pall® Life Sciences

Acrodisc® MS syringe filters are available in 13 and 25mm diameters with 0.2µm rated WWPTFE membrane and HDPE housings. The filters are designed for and certified to be very low in LCMS extractables providing more accurate results to the end user. Acrodisc MS syringe filters reduce the risk of matrix effects caused by extractables, and the filters are low in protein binding providing more accuracy in protein determinations and reduced concern about analyte losses.

The 25mm Acrodisc MS is suitable for volumes > 2 mL while the 13mm Acrodisc MS is suitable for volumes > 25µL.

Ordering Information: The Acrodisc MS syringe filters come with 0.2µm rated WWPTFE membrane and HDPE housings. The 25mm diameter filter comes with 50 filters per box and the 25mm diameter filter comes with 60 filters per box. Both come with product information inserts and certificates.



Description	Diameter	Effective Filtration Area	Pore Size	Supplier No.	Cat. No.
13 mm Acrodisc MS Syringe Filters	13 mm	1.0 cm ²	0.2 µm	MS-3301	CA30621-078
25 mm Acrodisc MS Syringe Filters	25 mm	3.9 cm ²	0.2 µm	MS-3201	CA89194-420

Custom Manufacturing

In addition to the products listed in our catalogue, Anachemia has the manufacturing capabilities to produce almost any chemical formulation or custom package size or type that your organization may need. Whether your goal is to reduce your staff's time spent preparing formulations used in your lab or to have product pre-packaged in single dose units, Anachemia's experienced chemical manufacturing personnel can assist you.

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VWR® Centrifugal Filters

Use to concentrate, purify, and desalt peptides, proteins, oligonucleotides, DNA, and RNA; clean up labeling and PCR reactions; isolate DNA from agarose gel slices; buffer exchange; separate proteins, oligonucleotides, and RNA from acrylamide gels; clarify samples; or remove particulates. Filter housings are constructed of polypropylene and are available with a polyethersulfone (PES) or nylon membrane.

Filters with nylon membrane are ideal for prefiltration clean-up of large agarose or acrylamide gel debris prior to further purification with an MWCO device.



Effective Filtration Area	0.28 cm ²
Hold-up Volume	5 µL
Length	4.5 cm (1 ²⁵ / ₃₂ "
Maximum Centrifugal Force	14,000 g
Maximum Receiver Volume	500 µL
Maximum Sample Volume	500 µL
Operating Temperature Range	0 to 40°C (32 to 104°F)

Description	MWCO	Color	Pore Size	Cat. No.
Polyethersulfone (PES) Membrane	3K	Gray	—	CA82031-344
Polyethersulfone (PES) Membrane	3K	Gray	—	CA82031-346
Polyethersulfone (PES) Membrane	10K	Blue	—	CA82031-348
Polyethersulfone (PES) Membrane	10K	Blue	—	CA82031-350
Polyethersulfone (PES) Membrane	30K	Red	—	CA82031-352
Polyethersulfone (PES) Membrane	30K	Red	—	CA82031-354
Nylon Membrane	—	Aqua	0.2 µm	CA82031-356
Nylon Membrane	—	Aqua	0.2 µm	CA82031-358
Nylon Membrane	—	Berry	0.45 µm	CA82031-360
Nylon Membrane	—	Berry	0.45 µm	CA82031-362

Macrosep® Advance Centrifugal Filter, Pall® Life Sciences

Macrosep® Advance centrifugal filters quickly concentrate up to 20 mL of biological samples.

Rapidly concentrate 20 mL samples volumes to 0.5 mL. Versatile Omega membrane low binding and the polypropylene housing minimizes losses due to non-specific binding. Macrosep® Advance filters have a built-in deadstop to prevent spinning to dryness and are color coded for easy identification. Available in ultrafiltration for concentrating and desalting proteins, exchange buffer or remove salt of chromatography eluates and gradient fractions. Microfiltration units can be used for removal of particulate from aqueous solutions and clinical samples. Filter medium of Macrosep® is Omega™ (modified polyethersulfone) and Supor® polyethersulfone.

For smaller samples use Pall Life Sciences Nanosep® centrifuge filters, or Microsep™ centrifuge filters. For larger samples use Pall Life Sciences Jumbosep™ centrifugal devices.



Capacity	20 mL (2/3 oz.)
Effective Filtration Area	7.2 cm ²
Maximum Centrifugal Force	5,000 g (ultrafiltration), 14,000 g (microfiltration)
Operating Temperature Range	0 to 40°C (32 to 104°F)
Overall Length	12.0 cm (14 ² / ₃ "

MWCO	Color	Pore Size	Supplier No.	Cat. No.
-	Wildberry	0.45 µm	MAPM45C67	CA89132-000
-	Wildberry	0.45 µm	MAPM45C68	CA89132-002
-	Aqua	0.2 µm	MAPM02C67	CA89131-996
-	Aqua	0.2 µm	MAPM02C68	CA89131-998
100K	Clear	-	MAP100C36	CA89131-990
100K	Clear	-	MAP100C37	CA89131-992
100K	Clear	-	MAP100C38	CA89131-994
30K	Red	-	MAP030C36	CA89131-984
30K	Red	-	MAP030C37	CA89131-986
30K	Red	-	MAP030C38	CA89131-988
10K	Blue	-	MAP010C36	CA89131-978
10K	Blue	-	MAP010C37	CA89131-980
10K	Blue	-	MAP010C38	CA89131-982
3K	Gray	-	MAP003C36	CA89131-972
3K	Gray	-	MAP003C37	CA89131-974
3K	Gray	-	MAP003C38	CA89131-976

Microsep™ Advance Centrifugal Filter, Pall® Life Sciences

Microsep™ Advance centrifugal filters provide precise, quick recovery of microliter volumes.

Microsep™ Advance centrifugal filters can achieve 50X concentration and > 90% recovery. Built-in dead feature prevents samples from spinning to dryness. Filters are color coded and laser etched for easy identification. Ultrafiltration units are ideal for concentration of dilute protein samples prior to electrophoresis. Recover biomolecules from cell culture supernatants or lysates. The microfiltration devices are ideal for clarifying samples with large particulate, or to remove particulate from samples for HPLC analysis of drugs, amino acids, and antibodies. Filter medium of Microsep™ is Omega™ (modified polyethersulfone) and Supor® polyethersulfone.

For smaller samples use Pall Life Sciences Nanosep® centrifuge filters. For larger samples use Pall Life Sciences Macrosep® or Jumbosep™ centrifugal filter.



Capacity	5 mL (1/6 oz.)
Effective Filtration Area	3.3 cm ²
Maximum Centrifugal Force	7,500 g (ultrafiltration), 14,000 g (microfiltration)
Operating Temperature Range	0 to 40°C (32 to 104°F)
Overall Length	12.0 cm (14 ² / ₃ "

MWCO	Color	Pore Size	Supplier No.	Cat. No.
-	Wildberry	0.45 µm	MCPM45C67	CA89132-024
-	Wildberry	0.45 µm	MCPM45C68	CA89132-026
-	Aqua	0.2 µm	MCPM02C67	CA89132-020
100k	Clear	-	MCP100C41	CA89132-016
100k	Clear	-	MCP100C46	CA89132-018
30k	Red	-	MCP030C41	CA89132-012
30k	Red	-	MCP030C46	CA89132-014
10k	Blue	-	MCP010C41	CA89132-008
10k	Blue	-	MCP010C46	CA89132-010
3k	Gray	-	MCP003C41	CA89132-004
3k	Gray	-	MCP003C46	CA89132-006

VWR® Vacuum Filtration Systems featuring Pall Membranes

VWR® vacuum filtration systems were designed for the sterile preparation of buffers, tissue culture media, microbiological media, and other biological fluids. They feature large diameter Pall membranes for guaranteed performance and maximum throughput.

The centrifuge tube filtration system includes a filter funnel, 15 mL or 50 mL centrifuge tube with polypropylene screw cap, and vacuum hose adapter. The system is designed to allow the user to filter fluids directly into the tube, eliminating the potential for contamination and spills during post-sterilization transfer. The bottle-top filtration system includes a receiver bottle with an ergonomic shape, molded finger grips, and a patented bottle cap.

All systems are compatible with the quick-connect vacuum pedestal, vacuum adapter (included), and cradle ring for use with existing laboratory stands. All three options allow for a convenient one-time vacuum hose connection, and one-handed operation. All items are available with 0.1 µm (Mycoplasma filtering grade), 0.2 µm (sterilizing grade) or 0.45 µm (clarification grade) asymmetric PES membranes. All items are made from Class VI materials, and are conveniently sold gamma sterilized.

Ordering Information: Vacuum filtration pedestal and vacuum filtration cradle are sold separately.



Description	Size	Membrane	Pore Size	Cat. No.
Full Assembly, Bottle-Top	250 mL	PES	0.1 µm	89220-694
Full Assembly, Bottle-Top	500 mL	PES	0.1 µm	89220-696
Full Assembly, Bottle-Top	1 L	PES	0.1 µm	89220-698
Full Assembly, Bottle-Top	250 mL	PES	0.2 µm	97066-200
Full Assembly, Bottle-Top	500 mL	PES	0.2 µm	97066-202
Full Assembly, Bottle-Top	1 L	PES	0.2 µm	97066-204
Full Assembly, Bottle-Top	250 mL	PES	0.45 µm	97066-206
Full Assembly, Bottle-Top	500 mL	PES	0.45 µm	97066-208
Full Assembly, Bottle-Top	1 L	PES	0.45 µm	97066-210
Funnel Only, Bottle-Top	1 L	PES	0.1 µm	89220-704

Acetic Acid, BDH ARISTAR® ULTRA

Ultra high purity acid for quantitative trace metal analysis at the parts-per-trillion (ppt) level.



Assay (CH ₃ COOH, w/w)	99% min.
Aluminum (Al)	50 ppt (pg/g) max.
Antimony (Sb)	50 ppt (pg/g) max.
Arsenic (As)	50 ppt (pg/g) max.
Barium (Ba)	10 ppt (pg/g) max.
Beryllium (Be)	10 ppt (pg/g) max.
Bismuth (Bi)	10 ppt (pg/g) max.
Cadmium (Cd)	10 ppt (pg/g) max.
Calcium (Ca)	50 ppt (pg/g) max.
Cerium (Ce)	10 ppt (pg/g) max.
Cesium (Cs)	10 ppt (pg/g) max.
Chromium (Cr)	10 ppt (pg/g) max.
Cobalt (Co)	10 ppt (pg/g) max.
Copper (Cu)	10 ppt (pg/g) max.
Dysprosium (Dy)	1 ppt (pg/g) max.
Erbium (Er)	1 ppt (pg/g) max.
Europium (Eu)	1 ppt (pg/g) max.
Gadolinium (Gd)	1 ppt (pg/g) max.
Gallium (Ga)	10 ppt (pg/g) max.
Germanium (Ge)	10 ppt (pg/g) max.
Hafnium (Hf)	10 ppt (pg/g) max.
Holmium (Ho)	1 ppt (pg/g) max.
Indium (In)	1 ppt (pg/g) max.
Iron (Fe)	50 ppt (pg/g) max.
Lanthanum (La)	1 ppt (pg/g) max.
Lead (Pb)	10 ppt (pg/g) max.
Lithium (Li)	10 ppt (pg/g) max.
Lutetium (Lu)	10 ppt (pg/g) max.
Magnesium (Mg)	50 ppt (pg/g) max.
Manganese (Mn)	10 ppt (pg/g) max.
Molybdenum (Mo)	10 ppt (pg/g) max.
Neodymium (Nd)	1 ppt (pg/g) max.
Nickel (Ni)	50 ppt (pg/g) max.
Platinum (Pt)	50 ppt (pg/g) max.
Potassium (K)	50 ppt (pg/g) max.
Praseodymium (Pr)	1 ppt (pg/g) max.
Rhenium (Re)	10 ppt (pg/g) max.
Rhodium (Rh)	50 ppt (pg/g) max.
Rubidium (Rb)	10 ppt (pg/g) max.
Ruthenium (Ru)	50 ppt (pg/g) max.
Samarium (Sm)	1 ppt (pg/g) max.
Scandium (Sc)	10 ppt (pg/g) max.
Selenium (Se)	Information only
Silver (Ag)	50 ppt (pg/g) max.
Sodium (Na)	100 ppt (pg/g) max.
Strontium (Sr)	10 ppt (pg/g) max.
Tellurium (Te)	1 ppt (pg/g) max.
Terbium (Tb)	1 ppt (pg/g) max.
Thallium (Tl)	10 ppt (pg/g) max.
Thorium (Th)	1 ppt (pg/g) max.
Thulium (Tm)	1 ppt (pg/g) max.
Tin (Sn)	50 ppt (pg/g) max.
Titanium (Ti)	10 ppt (pg/g) max.
Tungsten (W)	10 ppt (pg/g) max.
Uranium (U)	1 ppt (pg/g) max.
Vanadium (V)	10 ppt (pg/g) max.
Ytterbium (Yb)	1 ppt (pg/g) max.
Yttrium (Y)	1 ppt (pg/g) max.
Zinc (Zn)	50 ppt (pg/g) max.
Zirconium (Zr)	10 ppt (pg/g) max.

Size	Packaging	Cat. No.
500 mL	FEP Bottle	CA87003-212

Ammonium Hydroxide, BDH ARISTAR® ULTRA

Ultra high purity solution for quantitative trace metal analysis at the parts-per-trillion (ppt) level.



Assay (NH ₃ , w/w)	20 - 22%
Aluminum (Al)	20 ppt (pg/g) max.
Antimony (Sb)	10 ppt (pg/g) max.
Arsenic (As)	10 ppt (pg/g) max.
Barium (Ba)	10 ppt (pg/g) max.
Beryllium (Be)	10 ppt (pg/g) max.
Bismuth (Bi)	10 ppt (pg/g) max.
Cadmium (Cd)	10 ppt (pg/g) max.
Calcium (Ca)	10 ppt (pg/g) max.
Cerium (Ce)	10 ppt (pg/g) max.
Cesium (Cs)	10 ppt (pg/g) max.
Chromium (Cr)	10 ppt (pg/g) max.
Cobalt (Co)	10 ppt (pg/g) max.
Copper (Cu)	10 ppt (pg/g) max.
Dysprosium (Dy)	10 ppt (pg/g) max.
Erbium (Er)	10 ppt (pg/g) max.
Europium (Eu)	10 ppt (pg/g) max.
Gadolinium (Gd)	10 ppt (pg/g) max.
Gallium (Ga)	10 ppt (pg/g) max.
Germanium (Ge)	10 ppt (pg/g) max.
Gold (Au)	10 ppt (pg/g) max.
Hafnium (Hf)	Information only
Holmium (Ho)	10 ppt (pg/g) max.
Indium (In)	10 ppt (pg/g) max.
Iron (Fe)	10 ppt (pg/g) max.
Lanthanum (La)	10 ppt (pg/g) max.
Lead (Pb)	10 ppt (pg/g) max.
Lithium (Li)	10 ppt (pg/g) max.
Lutetium (Lu)	10 ppt (pg/g) max.
Magnesium (Mg)	10 ppt (pg/g) max.
Manganese (Mn)	10 ppt (pg/g) max.
Mercury (Hg)	200 ppt (pg/g) max.
Molybdenum (Mo)	10 ppt (pg/g) max.
Neodymium (Nd)	10 ppt (pg/g) max.
Nickel (Ni)	10 ppt (pg/g) max.
Niobium (Nb)	10 ppt (pg/g) max.
Palladium (Pd)	Information only
Platinum (Pt)	Information only
Potassium (K)	10 ppt (pg/g) max.
Praseodymium (Pr)	10 ppt (pg/g) max.
Rhenium (Re)	Information only
Rhodium (Rh)	10 ppt (pg/g) max.
Rubidium (Rb)	10 ppt (pg/g) max.
Ruthenium (Ru)	Information only
Samarium (Sm)	10 ppt (pg/g) max.
Scandium (Sc)	10 ppt (pg/g) max.
Selenium (Se)	Information only
Silver (Ag)	10 ppt (pg/g) max.
Sodium (Na)	20 ppt (pg/g) max.
Strontium (Sr)	10 ppt (pg/g) max.
Tellurium (Te)	10 ppt (pg/g) max.
Terbium (Tb)	10 ppt (pg/g) max.
Thallium (Tl)	10 ppt (pg/g) max.
Thorium (Th)	10 ppt (pg/g) max.
Thulium (Tm)	10 ppt (pg/g) max.
Tin (Sn)	10 ppt (pg/g) max.
Titanium (Ti)	10 ppt (pg/g) max.
Tungsten (W)	10 ppt (pg/g) max.
Uranium (U)	10 ppt (pg/g) max.
Vanadium (V)	10 ppt (pg/g) max.
Ytterbium (Yb)	10 ppt (pg/g) max.
Yttrium (Y)	10 ppt (pg/g) max.
Zinc (Zn)	10 ppt (pg/g) max.
Zirconium (Zr)	10 ppt (pg/g) max.

Size	Packaging	Cat. No.
500 mL	HDPE Bottle	CA87003-214
1 L	HDPE Bottle	CA87003-656

Acetic Acid, BDH ARISTAR® PLUS

High purity acid for quantitative trace metal analysis at the parts-per-billion (ppb) level.



Assay (CH ₃ COOH, w/w).....	.99% min.	Lutetium (Lu).....	0.1 ppb max.
Color.....	10 APHA max.	Magnesium (Mg).....	0.5 ppb max.
Chloride (Cl ⁻).....	1 ppm max.	Manganese (Mn).....	0.5 ppb max.
Phosphate (PO ₄).....	1 ppm max.	Mercury (Hg).....	1 ppb max.
Sulfate (SO ₄).....	0.5 ppm max.	Molybdenum (Mo).....	0.5 ppb max.
Substances Reducing Dichromate (K ₂ Cr ₂ O ₇).....	To Pass test	Neodymium (Nd).....	0.1 ppb max.
Substances Reducing Permanganate (KMnO ₄).....	To Pass test	Nickel (Ni).....	0.5 ppb max.
Aluminum (Al).....	1 ppb max.	Platinum (Pt).....	0.5 ppb max.
Antimony (Sb).....	0.5 ppb max.	Potassium (K).....	1 ppb max.
Arsenic (As).....	0.5 ppb max.	Praseodymium (Pr).....	0.1 ppb max.
Barium (Ba).....	0.5 ppb max.	Rhenium (Re).....	0.1 ppb max.
Beryllium (Be).....	0.1 ppb max.	Rhodium (Rh).....	0.5 ppb max.
Bismuth (Bi).....	0.1 ppb max.	Rubidium (Rb).....	0.1 ppb max.
Cadmium (Cd).....	0.5 ppb max.	Ruthenium (Ru).....	0.5 ppb max.
Calcium (Ca).....	1 ppb max.	Samarium (Sm).....	0.1 ppb max.
Cerium (Ce).....	0.1 ppb max.	Scandium (Sc).....	0.1 ppb max.
Cesium (Cs).....	0.1 ppb max.	Selenium (Se).....	1 ppb max.
Chromium (Cr).....	1 ppb max.	Silver (Ag).....	1 ppb max.
Cobalt (Co).....	0.1 ppb max.	Sodium (Na).....	1 ppb max.
Copper (Cu).....	0.5 ppb max.	Strontium (Sr).....	0.5 ppb max.
Dysprosium (Dy).....	0.1 ppb max.	Tellurium (Te).....	0.5 ppb max.
Erbium (Er).....	0.1 ppb max.	Terbium (Tb).....	0.1 ppb max.
Europium (Eu).....	0.1 ppb max.	Thallium (Tl).....	0.1 ppb max.
Gadolinium (Gd).....	0.1 ppb max.	Thorium (Th).....	0.1 ppb max.
Gallium (Ga).....	0.1 ppb max.	Thulium (Tm).....	0.1 ppb max.
Germanium (Ge).....	0.5 ppb max.	Tin (Sn).....	0.5 ppb max.
Hafnium (Hf).....	0.1 ppb max.	Titanium (Ti).....	0.5 ppb max.
Holmium (Ho).....	0.1 ppb max.	Tungsten (W).....	0.5 ppb max.
Indium (In).....	0.1 ppb max.	Uranium (U).....	0.1 ppb max.
Iron (Fe).....	1 ppb max.	Vanadium (V).....	0.5 ppb max.
Lanthanum (La).....	0.1 ppb max.	Ytterbium (Yb).....	0.1 ppb max.
Lead (Pb).....	0.1 ppb max.	Yttrium (Y).....	0.1 ppb max.
Lithium (Li).....	0.1 ppb max.	Zinc (Zn).....	1 ppb max.
		Zirconium (Zr).....	0.1 ppb max.

Size	Packaging	Cat. No.
500 mL	Poly bottle	CA87003-239
2.5 L	Poly bottle	CA87003-241

Chemical Capabilities—Tried. Trusted. True.

VWR chemicals are suitable for a multitude of analytical and production applications.

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- High Purity Solvents
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**Ammonium Hydroxide,
BDH ARISTAR® PLUS**

High purity solution for quantitative trace metal analysis in the parts-per-billion (ppb) level.



Assay (NH ₃ , w/w).....	20 - 22%
Color (APHA).....	10 max.
Aluminum (Al).....	1 ppb max.
Antimony (Sb).....	0.5 ppb max.
Arsenic (As).....	1 ppb max.
Barium (Ba).....	0.1 ppb max.
Beryllium (Be).....	0.1 ppb max.
Bismuth (Bi).....	0.1 ppb max.
Cadmium (Cd).....	0.5 ppb max.
Calcium (Ca).....	1 ppb max.
Cerium (Ce).....	0.1 ppb max.
Cesium (Cs).....	0.1 ppb max.
Chromium (Cr).....	0.5 ppb max.
Cobalt (Co).....	0.5 ppb max.
Copper (Cu).....	0.5 ppb max.
Dysprosium (Dy).....	0.1 ppb max.
Erbium (Er).....	0.1 ppb max.
Europium (Eu).....	0.1 ppb max.
Gadolinium (Gd).....	0.1 ppb max.
Gallium (Ga).....	0.1 ppb max.
Germanium (Ge).....	0.1 ppb max.
Gold (Au).....	0.5 ppb max.
Hafnium (Hf).....	Information only
Holmium (Ho).....	0.1 ppb max.
Indium (In).....	0.1 ppb max.
Iron (Fe).....	1 ppb max.
Lanthanum (La).....	0.1 ppb max.
Lead (Pb).....	0.1 ppb max.
Lithium (Li).....	0.1 ppb max.
Lutetium (Lu).....	0.1 ppb max.
Magnesium (Mg).....	1 ppb max.
Manganese (Mn).....	0.5 ppb max.
Mercury (Hg).....	0.2 ppb max.
Molybdenum (Mo).....	0.5 ppb max.
Neodymium (Nd).....	0.1 ppb max.
Nickel (Ni).....	0.5 ppb max.
Niobium (Nb).....	0.1 ppb max.
Palladium (Pd).....	Information only
Platinum (Pt).....	Information only
Potassium (K).....	1 ppb max.
Praseodymium (Pr).....	0.1 ppb max.
Rhenium (Re).....	Information only
Rhodium (Rh).....	0.5 ppb max.
Rubidium (Rb).....	0.1 ppb max.
Ruthenium (Ru).....	Information only
Samarium (Sm).....	0.1 ppb max.
Scandium (Sc).....	0.1 ppb max.
Selenium (Se).....	1 ppb max.
Silver (Ag).....	0.5 ppb max.
Sodium (Na).....	1 ppb max.
Strontium (Sr).....	0.1 ppb max.
Tellurium (Te).....	0.1 ppb max.
Terbium (Tb).....	0.1 ppb max.
Thallium (Tl).....	0.1 ppb max.
Thorium (Th).....	0.1 ppb max.
Thulium (Tm).....	0.1 ppb max.
Tin (Sn).....	0.5 ppb max.
Titanium (Ti).....	0.5 ppb max.
Tungsten (W).....	0.1 ppb max.
Uranium (U).....	0.1 ppb max.
Vanadium (V).....	0.5 ppb max.
Ytterbium (Yb).....	0.1 ppb max.
Yttrium (Y).....	0.1 ppb max.
Zinc (Zn).....	0.5 ppb max.
Zirconium (Zr).....	0.1 ppb max.

Size	Packaging	Cat. No.
500 mL	HDPE Bottle	CA87003-245
4 L	HDPE Bottle	CA87003-246

Acetone, ACS Grade.

Suitable for histology and cytology applications.



Residue after evaporation.....	0.001% max.
Water by Karl Fischer titration.....	0.5% max.
Titration base.....	0.6 µeq/g max.
Titration acid.....	0.3 µeq/g max.
Substances reducing permanganate.....	Pass
Assay (GC, excluding water).....	99.5% min.
Solubility in water.....	Pass
Aldehyde (as HCHO).....	0.002% max.
Methanol.....	0.05% max.
Color (APHA).....	10 max.
Isopropyl alcohol.....	0.05% max.
Meets ACS specifications for general use.....	Pass

Size	Packaging	Cat. No.
19 L	Steel Can	CABDH1101-19L
1 L	Poly Bottle	CABDH1101-1LP
4 L	Glass Bottle	CABDH1101-4LG
4 L	Poly Bottle	CABDH1101-4LP

Acetonitrile, ACS Grade.

Clear liquid.



Color (APHA).....	10 max.
Water.....	0.3% max.
Titration acid.....	8 µeq/g max.
Titration base.....	0.6 µeq/g max.
Residue after evaporation.....	0.005% max.
Meets ACS specifications for general use.....	Pass
Assay by GC analysis.....	99.5% min.
Appearance.....	Pass

Size	Packaging	Cat. No.
19 L	Steel Can	CABDH1103-19L
4 L	Glass Bottle	CABDH1103-4LG

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Sample Preparation

Stains & Reagents

Water, BDH ARISTAR® ULTRA

Ultra high purity water for quantitative trace metal analysis in the parts-per-trillion (ppt) level.

Size	Packaging	Cat. No.
1 L	Poly Bottle	CA87003-236

Color	
(APHA)	5 max.
Color (APHA)	10 max.
Chloride (Cl-)	1 ppb max.
Phosphate (PO ₄)	1 ppb max.
Sulfate (SO ₄)	1 ppb max.
Aluminum (Al)	20 ppt max.
Antimony (Sb)	10 ppt max.
Arsenic (As)	10 ppt max.
Barium (Ba)	10 ppt max.
Beryllium (Be)	10 ppt max.
Bismuth (Bi)	10 ppt max.
Boron (B)	20 ppt max.
Cadmium (Cd)	10 ppt max.
Calcium (Ca)	10 ppt max.
Cerium (Ce)	10 ppt max.
Cesium (Cs)	10 ppt max.
Chromium (Cr)	10 ppt max.
Cobalt (Co)	10 ppt max.
Copper (Cu)	10 ppt max.
Dysprosium (Dy)	1 ppt max.
Erbium (Er)	1 ppt max.
Europium (Eu)	1 ppt max.
Gadolinium (Gd)	1 ppt max.
Gallium (Ga)	10 ppt max.
Germanium (Ge)	10 ppt max.
Gold (Au)	10 ppt max.
Hafnium (Hf)	1 ppt max.
Holmium (Ho)	1 ppt max.
Indium (In)	1 ppt max.
Iron (Fe)	10 ppt max.
Lanthanum (La)	1 ppt max.
Lead (Pb)	10 ppt max.
Lithium (Li)	10 ppt max.
Lutetium (Lu)	1 ppt max.
Magnesium (Mg)	10 ppt max.
Manganese (Mn)	10 ppt max.
Mercury (Hg)	20 ppt max.
Neodymium (Nd)	1 ppt max.
Nickel (Ni)	10 ppt max.
Niobium (Nb)	10 ppt max.
Palladium (Pd)	10 ppt max.
Platinum (Pt)	10 ppt max.
Potassium (K)	10 ppt max.
Praseodymium (Pr)	10 ppt max.
Rhenium (Re)	10 ppt max.
Rhodium (Rh)	10 ppt max.
Rubidium (Rb)	10 ppt max.
Ruthenium (Ru)	10 ppt max.
Samarium (Sm)	10 ppt max.
Scandium (Sc)	10 ppt max.
Selenium (Se)	50 ppt max.
Silver (Ag)	10 ppt max.
Sodium (Na)	10 ppt max.
Strontium (Sr)	10 ppt max.
Tantalum (Ta)	10 ppt max.
Tellurium (Te)	1 ppt max.
Terbium (Tb)	10 ppt max.
Thallium (Tl)	10 ppt max.
Thorium (Th)	1 ppt max.
Thulium (Tm)	10 ppt max.
Tin (Sn)	10 ppt max.
Titanium (Ti)	10 ppt max.
Tungsten (W)	10 ppt max.
Uranium (U)	1 pp max.
Vanadium (V)	10 ppt max.
Ytterbium (Yb)	10 ppt max.
Yttrium (Y)	1 ppt max.
Zinc (Zn)	10 ppt max.
Zirconium (Zr)	10 ppt max.



Hydrochloric Acid, BDH ARISTAR® ULTRA

Ultra high purity acid for quantitative trace metal analysis at the parts-per-trillion (ppt) level.



Assay (HCl, w/w)	32 - 35 %
Aluminum (Al)	20 ppt (pg/g) max.
Antimony (Sb)	20 ppt (pg/g) max.
Arsenic (As)	50 ppt (pg/g) max.
Barium (Ba)	10 ppt (pg/g) max.
Beryllium (Be)	10 ppt (pg/g) max.
Bismuth (Bi)	10 ppt (pg/g) max.
Boron (B)	100 ppt (pg/g) max.
Cadmium (Cd)	10 ppt (pg/g) max.
Calcium (Ca)	10 ppt (pg/g) max.
Cerium (Ce)	10 ppt (pg/g) max.
Cesium (Cs)	10 ppt (pg/g) max.
Chromium (Cr)	10 ppt (pg/g) max.
Cobalt (Co)	10 ppt (pg/g) max.
Copper (Cu)	10 ppt (pg/g) max.
Dysprosium (Dy)	1 ppt (pg/g) max.
Erbium (Er)	1 ppt (pg/g) max.
Europium (Eu)	1 ppt (pg/g) max.
Gadolinium (Gd)	1 ppt (pg/g) max.
Gallium (Ga)	10 ppt (pg/g) max.
Gold (Au)	50 ppt (pg/g) max.
Hafnium (Hf)	10 ppt (pg/g) max.
Holmium (Ho)	1 ppt (pg/g) max.
Indium (In)	1 ppt (pg/g) max.
Iron (Fe)	10 ppt (pg/g) max.
Lanthanum (La)	1 ppt (pg/g) max.
Lead (Pb)	10 ppt (pg/g) max.
Lithium (Li)	10 ppt (pg/g) max.
Lutetium (Lu)	10 ppt (pg/g) max.
Magnesium (Mg)	10 ppt (pg/g) max.
Manganese (Mn)	10 ppt (pg/g) max.
Mercury (Hg)	50 ppt (pg/g) max.
Molybdenum (Mo)	10 ppt (pg/g) max.
Neodymium (Nd)	1 ppt (pg/g) max.
Nickel (Ni)	20 ppt (pg/g) max.
Niobium (Nb)	1 ppt (pg/g) max.
Palladium (Pd)	Information only
Platinum (Pt)	Information only
Potassium (K)	10 ppt (pg/g) max.
Praseodymium (Pr)	1 ppt (pg/g) max.
Rhenium (Re)	10 ppt (pg/g) max.
Rhodium (Rh)	10 ppt (pg/g) max.
Rubidium (Rb)	10 ppt (pg/g) max.
Ruthenium (Ru)	10 ppt (pg/g) max.
Samarium (Sm)	1 ppt (pg/g) max.
Scandium (Sc)	10 ppt (pg/g) max.
Selenium (Se)	Information only
Silver (Ag)	10 ppt (pg/g) max.
Sodium (Na)	10 ppt (pg/g) max.
Strontium (Sr)	10 ppt (pg/g) max.
Tantalum (Ta)	Information only
Tellurium (Te)	1 ppt (pg/g) max.
Terbium (Tb)	1 ppt (pg/g) max.
Thallium (Tl)	10 ppt (pg/g) max.
Thorium (Th)	1 ppt (pg/g) max.
Thulium (Tm)	1 ppt (pg/g) max.
Tin (Sn)	20 ppt (pg/g) max.
Titanium (Ti)	10 ppt (pg/g) max.
Tungsten (W)	10 ppt (pg/g) max.
Uranium (U)	1 ppt (pg/g) max.
Vanadium (V)	10 ppt (pg/g) max.
Ytterbium (Yb)	1 ppt (pg/g) max.
Yttrium (Y)	1 ppt (pg/g) max.

Continued on next page

Continued from previous page

Zinc (Zn)	10 ppt (pg/g) max.
Zirconium (Zr)	10 ppt (pg/g) max.

Size	Packaging	Cat. No.
500 mL	PFA Bottle	CA87003-216
1 L	PFA Bottle	CA87003-218
2 L	PFA Bottle	CA87003-220

Hydrofluoric Acid, BDH ARISTAR® ULTRA

Ultra high purity acid for quantitative trace metal analysis at the parts-per-trillion (ppt) level.



Assay (HF)	47 - 51%
w/w)	
Total Sulfur (S)	100 ppb (ng/g) max.
Aluminum (Al)	20 ppt (pg/g) max.
Antimony (Sb)	20 ppt (pg/g) max.
Arsenic (As)	50 ppt (pg/g) max.
Barium (Ba)	10 ppt (pg/g) max.
Beryllium (Be)	10 ppt (pg/g) max.
Bismuth (Bi)	10 ppt (pg/g) max.
Boron (B)	100 ppt (pg/g) max.
Cadmium (Cd)	10 ppt (pg/g) max.
Calcium (Ca)	10 ppt (pg/g) max.
Cerium (Ce)	10 ppt (pg/g) max.
Cesium (Cs)	10 ppt (pg/g) max.
Chromium (Cr)	10 ppt (pg/g) max.
Cobalt (Co)	10 ppt (pg/g) max.
Copper (Cu)	10 ppt (pg/g) max.
Dysprosium (Dy)	1 ppt (pg/g) max.
Erbium (Er)	1 ppt (pg/g) max.
Europium (Eu)	1 ppt (pg/g) max.
Gadolinium (Gd)	1 ppt (pg/g) max.
Gallium (Ga)	10 ppt (pg/g) max.
Germanium (Ge)	10 ppt (pg/g) max.
Gold (Au)	20 ppt (pg/g) max.
Hafnium (Hf)	10 ppt (pg/g) max.
Holmium (Ho)	1 ppt (pg/g) max.
Indium (In)	1 ppt (pg/g) max.
Iron (Fe)	10 ppt (pg/g) max.
Lanthanum (La)	10 ppt (pg/g) max.
Lead (Pb)	10 ppt (pg/g) max.
Lithium (Li)	10 ppt (pg/g) max.
Lutetium (Lu)	1 ppt (pg/g) max.
Magnesium (Mg)	10 ppt (pg/g) max.
Manganese (Mn)	10 ppt (pg/g) max.
Mercury (Hg)	50 ppt (pg/g) max.
Molybdenum (Mo)	10 ppt (pg/g) max.
Neodymium (Nd)	1 ppt (pg/g) max.
Nickel (Ni)	20 ppt (pg/g) max.
Niobium (Nb)	10 ppt (pg/g) max.
Palladium (Pd)	20 ppt (pg/g) max.
Platinum (Pt)	20 ppt (pg/g) max.
Potassium (K)	10 ppt (pg/g) max.
Praseodymium (Pr)	1 ppt (pg/g) max.
Rhenium (Re)	10 ppt (pg/g) max.
Rhodium (Rh)	20 ppt (pg/g) max.
Rubidium (Rb)	20 ppt (pg/g) max.
Ruthenium (Ru)	20 ppt (pg/g) max.
Samarium (Sm)	1 ppt (pg/g) max.
Scandium (Sc)	10 ppt (pg/g) max.
Selenium (Se)	Information only
Silver (Ag)	10 ppt (pg/g) max.
Sodium (Na)	10 ppt (pg/g) max.
Strontium (Sr)	10 ppt (pg/g) max.
Tantalum (Ta)	Information only
Tellurium (Te)	1 ppt (pg/g) max.
Terbium (Tb)	1 ppt (pg/g) max.
Thallium (Tl)	10 ppt (pg/g) max.
Thorium (Th)	1 ppt (pg/g) max.
Thulium (Tm)	1 ppt (pg/g) max.
Tin (Sn)	20 ppt (pg/g) max.
Titanium (Ti)	20 ppt (pg/g) max.

Custom Manufacturing

In addition to the products listed in our catalogue, Anachemia has the manufacturing capabilities to produce almost any chemical formulation or custom package size or type that your organization may need. Whether your goal is to reduce your staff's time spent preparing formulations used in your lab or to have product pre-packaged in single dose units, Anachemia's experienced chemical manufacturing personnel can assist you. Contact us at **(800) 361-0209** to request a quote on custom chemical products.



Tungsten (W)	20 ppt (pg/g) max.
Uranium (U)	1 ppt (pg/g) max.
Vanadium (V)	10 ppt (pg/g) max.
Ytterbium (Yb)	1 ppt (pg/g) max.
Yttrium (Y)	1 ppt (pg/g) max.
Zinc (Zn)	10 ppt (pg/g) max.
Zirconium (Zr)	10 ppt (pg/g) max.

Size	Packaging	Cat. No.
500 mL	PFA Bottle	CA87003-222

Hydrogen Peroxide, BDH ARISTAR® ULTRA

Ultra high purity acid for quantitative trace metal analysis at the parts-per-trillion (ppt) level.



Assay (H ₂ O ₂ w/w)	30 - 32 %
Aluminum (Al)	50 ppt (pg/g) max.
Antimony (Sb)	10 ppt (pg/g) max.
Arsenic (As)	100 ppt (pg/g) max.
Barium (Ba)	10 ppt (pg/g) max.
Beryllium (Be)	10 ppt (pg/g) max.
Bismuth (Bi)	10 ppt (pg/g) max.
Boron (B)	100 ppt (pg/g) max.
Cadmium (Cd)	10 ppt (pg/g) max.
Calcium (Ca)	100 ppt (pg/g) max.
Cerium (Ce)	1 ppt (pg/g) max.
Cesium (Cs)	1 ppt (pg/g) max.
Chromium (Cr)	10 ppt (pg/g) max.
Cobalt (Co)	10 ppt (pg/g) max.
Copper (Cu)	10 ppt (pg/g) max.
Dysprosium (Dy)	1 ppt (pg/g) max.
Erbium (Er)	1 ppt (pg/g) max.
Europium (Eu)	1 ppt (pg/g) max.
Gadolinium (Gd)	1 ppt (pg/g) max.
Gallium (Ga)	10 ppt (pg/g) max.
Germanium (Ge)	10 ppt (pg/g) max.
Gold (Au)	10 ppt (pg/g) max.
Hafnium (Hf)	1 ppt (pg/g) max.
Holmium (Ho)	1 ppt (pg/g) max.
Indium (In)	1 ppt (pg/g) max.
Iron (Fe)	20 ppt (pg/g) max.
Lanthanum (La)	1 ppt (pg/g) max.
Lead (Pb)	10 ppt (pg/g) max.
Lithium (Li)	10 ppt (pg/g) max.
Lutetium (Lu)	1 ppt (pg/g) max.
Magnesium (Mg)	20 ppt (pg/g) max.
Manganese (Mn)	10 ppt (pg/g) max.
Mercury (Hg)	50 ppt (pg/g) max.
Molybdenum (Mo)	10 ppt (pg/g) max.

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Neodymium (Nd)	1 ppt (pg/g) max.
Nickel (Ni)	20 ppt (pg/g) max.
Niobium (Nb)	10 ppt (pg/g) max.
Palladium (Pd)	10 ppt (pg/g) max.
Potassium (K)	20 ppt (pg/g) max.
Praseodymium (Pr)	1 ppt (pg/g) max.
Rhenium (Re)	10 ppt (pg/g) max.
Rhodium (Rh)	10 ppt (pg/g) max.
Rubidium (Rb)	10 ppt (pg/g) max.
Ruthenium (Ru)	10 ppt (pg/g) max.
Samarium (Sm)	1 ppt (pg/g) max.
Scandium (Sc)	10 ppt (pg/g) max.
Selenium (Se)	100 ppt (pg/g) max.
Silver (Ag)	10 ppt (pg/g) max.
Sodium (Na)	50 ppt (pg/g) max.
Strontium (Sr)	10 ppt (pg/g) max.
Tantalum (Ta)	10 ppt (pg/g) max.
Tellurium (Te)	1 ppt (pg/g) max.
Terbium (Tb)	1 ppt (pg/g) max.
Thallium (Tl)	1 ppt (pg/g) max.
Thorium (Th)	1 ppt (pg/g) max.
Thulium (Tm)	1 ppt (pg/g) max.
Tin (Sn)	50 ppt (pg/g) max.
Titanium (Ti)	20 ppt (pg/g) max.
Tungsten (W)	20 ppt (pg/g) max.
Uranium (U)	1 ppt (pg/g) max.
Vanadium (V)	10 ppt (pg/g) max.
Ytterbium (Yb)	1 ppt (pg/g) max.
Yttrium (Y)	1 ppt (pg/g) max.
Zinc (Zn)	50 ppt (pg/g) max.
Zirconium (Zr)	10 ppt (pg/g) max.

Size	Packaging	Cat. No.
500 mL	FEP Bottle	CA87003-224

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Hydrochloric Acid, BDH ARISTAR® PLUS

High purity acid for quantitative trace metal analysis in the parts-per-billion (ppb) level.



Assay (HCl, w/w)	34 - 37 %
Color (APHA)	10 max.
Aluminum (Al)	1 ppb max.
Antimony (Sb)	0.5 ppb max.
Arsenic (As)	0.5 ppb max.
Barium (Ba)	0.1 ppb max.
Beryllium (Be)	0.1 ppb max.
Bismuth (Bi)	0.1 ppb max.
Boron (B)	1 ppb max.
Cadmium (Cd)	0.1 ppb max.
Calcium (Ca)	1 ppb max.
Cerium (Ce)	0.1 ppb max.
Cesium (Cs)	0.1 ppb max.
Chromium (Cr)	0.5 ppb max.
Cobalt (Co)	0.1 ppb max.
Copper (Cu)	0.5 ppb max.
Dysprosium (Dy)	0.1 ppb max.
Erbium (Er)	0.1 ppb max.
Europium (Eu)	0.1 ppb max.
Gadolinium (Gd)	0.1 ppb max.
Gallium (Ga)	0.1 ppb max.
Gold (Au)	0.5 ppb max.
Hafnium (Hf)	0.1 ppb max.
Holmium (Ho)	0.1 ppb max.
Indium (In)	0.1 ppb max.
Iron (Fe)	1 ppb max.
Lanthanum (La)	0.1 ppb max.
Lead (Pb)	0.1 ppb max.
Lithium (Li)	0.1 ppb max.
Lutetium (Lu)	0.1 ppb max.
Magnesium (Mg)	0.5 ppb max.
Manganese (Mn)	0.1 ppb max.
Mercury (Hg)	0.1 ppb max.
Molybdenum (Mo)	0.1 ppb max.
Neodymium (Nd)	0.1 ppb max.
Nickel (Ni)	0.5 ppb max.
Niobium (Nb)	0.1 ppb max.
Palladium (Pd)	Information only
Platinum (Pt)	Information only
Potassium (K)	1 ppb max.
Praseodymium (Pr)	0.1 ppb max.
Rhenium (Re)	0.1 ppb max.
Rhodium (Rh)	0.1 ppb max.
Rubidium (Rb)	0.1 ppb max.
Ruthenium (Ru)	0.1 ppb max.
Samarium (Sm)	0.1 ppb max.
Scandium (Sc)	0.1 ppb max.
Selenium (Se)	1 ppb max.
Silver (Ag)	1 ppb max.
Sodium (Na)	1 ppb max.
Strontium (Sr)	0.1 ppb max.
Tantalum (Ta)	Information only
Tellurium (Te)	0.1 ppb max.
Terbium (Tb)	0.1 ppb max.
Thallium (Tl)	0.1 ppb max.
Thorium (Th)	0.1 ppb max.
Tin (Sn)	0.5 ppb max.
Titanium (Ti)	0.5 ppb max.
Tungsten (W)	0.1 ppb max.
Uranium (U)	0.1 ppb max.
Vanadium (V)	0.5 ppb max.
Ytterbium (Yb)	0.1 ppb max.
Yttrium (Y)	0.1 ppb max.
Zinc (Zn)	1 ppb max.
Zirconium (Zr)	0.1 ppb max.
Bromide (Br-)	10 ppm max.
Total Phosphorus (P)	0.01 ppm max.
Total Sulfur (S)	0.3 ppm max.

Size	Packaging	Cat. No.
500 mL	Glass Bottle	CA87003-251
2.5 L	Poly-Coated Glass Bottle	CA87003-253

Hydrofluoric Acid, BDH ARISTAR® PLUS

High purity acid for quantitative trace metal analysis at the parts-per-billion (ppb) level.



Assay (HF, w/w).....	47 - 51 %	Magnesium (Mg).....	1 ppb (ng/g) max.
Color (APHA).....	10 max.	Manganese (Mn).....	0.1 ppb (ng/g) max.
Chloride (Cl-).....	4 ppm (µg/g) max.	Mercury (Hg).....	1 ppb (ng/g) max.
Total Phosphorus (P).....	0.05 ppm (µg/g) max.	Molybdenum (Mo).....	0.1 ppb (ng/g) max.
Total Sulfur (S).....	0.1 ppm (µg/g) max.	Neodymium (Nd).....	0.1 ppb (ng/g) max.
Fluosilicic Acid (SiF ₆).....	20 ppm (µg/g) max.	Nickel (Ni).....	0.5 ppb (ng/g) max.
Aluminum (Al).....	1 ppb (ng/g) max.	Niobium (Nb).....	0.1 ppb (ng/g) max.
Antimony (Sb).....	0.2 ppb (ng/g) max.	Palladium (Pd).....	0.2 ppb (ng/g) max.
Arsenic (As).....	0.5 ppb (ng/g) max.	Platinum (Pt).....	0.2 ppb (ng/g) max.
Barium (Ba).....	0.1 ppb (ng/g) max.	Potassium (K).....	1 ppb (ng/g) max.
Beryllium (Be).....	0.1 ppb (ng/g) max.	Praseodymium (Pr).....	0.1 ppb (ng/g) max.
Bismuth (Bi).....	0.1 ppb (ng/g) max.	Rhenium (Re).....	0.1 ppb (ng/g) max.
Boron (B).....	1 ppb (ng/g) max.	Rhodium (Rh).....	0.1 ppb (ng/g) max.
Cadmium (Cd).....	0.1 ppb (ng/g) max.	Rubidium (Rb).....	0.1 ppb (ng/g) max.
Calcium (Ca).....	1 ppb (ng/g) max.	Ruthenium (Ru).....	0.1 ppb (ng/g) max.
Cerium (Ce).....	0.1 ppb (ng/g) max.	Samarium (Sm).....	0.1 ppb (ng/g) max.
Cesium (Cs).....	0.1 ppb (ng/g) max.	Scandium (Sc).....	0.1 ppb (ng/g) max.
Chromium (Cr).....	1 ppb (ng/g) max.	Selenium (Se).....	1 ppb (ng/g) max.
Cobalt (Co).....	0.1 ppb (ng/g) max.	Silver (Ag).....	0.5 ppb (ng/g) max.
Copper (Cu).....	0.5 ppb (ng/g) max.	Sodium (Na).....	1 ppb (ng/g) max.
Dysprosium (Dy).....	0.1 ppb (ng/g) max.	Strontium (Sr).....	0.1 ppb (ng/g) max.
Erbium (Er).....	0.1 ppb (ng/g) max.	Tantalum (Ta).....	Information only
Europium (Eu).....	0.1 ppb (ng/g) max.	Tellurium (Te).....	0.1 ppb (ng/g) max.
Gadolinium (Gd).....	0.1 ppb (ng/g) max.	Terbium (Tb).....	0.1 ppb (ng/g) max.
Gallium (Ga).....	0.1 ppb (ng/g) max.	Thallium (Tl).....	0.1 ppb (ng/g) max.
Germanium (Ge).....	0.1 ppb (ng/g) max.	Thorium (Th).....	0.1 ppb (ng/g) max.
Gold (Au).....	0.2 ppb (ng/g) max.	Titanium (Ti).....	1 ppb (ng/g) max.
Hafnium (Hf).....	0.1 ppb (ng/g) max.	Tungsten (W).....	0.5 ppb (ng/g) max.
Holmium (Ho).....	0.1 ppb (ng/g) max.	Uranium (U).....	0.1 ppb (ng/g) max.
Indium (In).....	0.1 ppb (ng/g) max.	Vanadium (V).....	0.1 ppb (ng/g) max.
Iron (Fe).....	1 ppb (ng/g) max.	Ytterbium (Yb).....	0.1 ppb (ng/g) max.
Lanthanum (La).....	0.1 ppb (ng/g) max.	Yttrium (Y).....	0.1 ppb (ng/g) max.
Lead (Pb).....	0.1 ppb (ng/g) max.	Zinc (Zn).....	1 ppb (ng/g) max.
Lithium (Li).....	0.1 ppb (ng/g) max.	Zirconium (Zr).....	0.1 ppb (ng/g) max.
Lutetium (Lu).....	0.1 ppb (ng/g) max.		

Size	Packaging	Cat. No.
500 mL	HDPE Bottle	CA87003-257

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Hydrobromic Acid, BDH ARISTAR® ULTRA

Ultra high purity acid for quantitative trace metal analysis at the parts-per-trillion (ppt) level.



Assay (HBr)	.....	.44 - 49 %
w/w)	.....
Aluminum (Al)	.....	100 ppt (pg/g) max.
Antimony (Sb)	.....	Information only
Barium (Ba)	.....	100 ppt (pg/g) max.
Beryllium (Be)	.....	100 ppt (pg/g) max.
Bismuth (Bi)	.....	100 ppt (pg/g) max.
Boron (B)	.....	Information only
Cadmium (Cd)	.....	100 ppt (pg/g) max.
Calcium (Ca)	.....	100 ppt (pg/g) max.
Cerium (Ce)	.....	10 ppt (pg/g) max.
Cesium (Cs)	.....	10 ppt (pg/g) max.
Chromium (Cr)	.....	100 ppt (pg/g) max.
Cobalt (Co)	.....	100 ppt (pg/g) max.
Copper (Cu)	.....	100 ppt (pg/g) max.
Dysprosium (Dy)	.....	10 ppt (pg/g) max.
Erbium (Er)	.....	10 ppt (pg/g) max.
Europium (Eu)	.....	10 ppt (pg/g) max.
Gadolinium (Gd)	.....	10 ppt (pg/g) max.
Gallium (Ga)	.....	100 ppt (pg/g) max.
Gold (Au)	.....	100 ppt (pg/g) max.
Hafnium (Hf)	.....	10 ppt (pg/g) max.
Holmium (Ho)	.....	10 ppt (pg/g) max.
Indium (In)	.....	10 ppt (pg/g) max.
Iron (Fe)	.....	100 ppt (pg/g) max.
Lanthanum (La)	.....	10 ppt (pg/g) max.
Lead (Pb)	.....	1 ppt (pg/g) max.
Lithium (Li)	.....	100 ppt (pg/g) max.
Lutetium (Lu)	.....	10 ppt (pg/g) max.
Magnesium (Mg)	.....	100 ppt (pg/g) max.
Manganese (Mn)	.....	100 ppt (pg/g) max.
Molybdenum (Mo)	.....	100 ppt (pg/g) max.
Neodymium (Nd)	.....	10 ppt (pg/g) max.
Nickel (Ni)	.....	100 ppt (pg/g) max.
Niobium (Nb)	.....	10 ppt (pg/g) max.
Palladium (Pd)	.....	100 ppt (pg/g) max.
Platinum (Pt)	.....	100 ppt (pg/g) max.
Potassium (K)	.....	100 ppt (pg/g) max.
Praseodymium (Pr)	.....	10 ppt (pg/g) max.
Rhenium (Re)	.....	100 ppt (pg/g) max.
Rhodium (Rh)	.....	100 ppt (pg/g) max.
Rubidium (Rb)	.....	100 ppt (pg/g) max.
Ruthenium (Ru)	.....	100 ppt (pg/g) max.
Samarium (Sm)	.....	10 ppt (pg/g) max.
Scandium (Sc)	.....	100 ppt (pg/g) max.
Silver (Ag)	.....	100 ppt (pg/g) max.
Sodium (Na)	.....	100 ppt (pg/g) max.
Strontium (Sr)	.....	100 ppt (pg/g) max.
Tantalum (Ta)	.....	Information only
Tellurium (Te)	.....	10 ppt (pg/g) max.
Terbium (Tb)	.....	10 ppt (pg/g) max.
Thallium (Tl)	.....	10 ppt (pg/g) max.
Thorium (Th)	.....	1 ppt (pg/g) max.
Thulium (Tm)	.....	10 ppt (pg/g) max.
Tin (Sn)	.....	100 ppt (pg/g) max.
Titanium (Ti)	.....	100 ppt (pg/g) max.
Tungsten (W)	.....	100 ppt (pg/g) max.
Uranium (U)	.....	1 ppt (pg/g) max.
Vanadium (V)	.....	100 ppt (pg/g) max.
Ytterbium (Yb)	.....	10 ppt (pg/g) max.
Yttrium (Y)	.....	10 ppt (pg/g) max.
Zinc (Zn)	.....	100 ppt (pg/g) max.
Zirconium (Zr)	.....	10 ppt (pg/g) max.

Size	Packaging	Cat. No.
500 mL	FEP Bottle	CA87003-654

Perchloric Acid, BDH ARISTAR® ULTRA

Ultra high purity acid for quantitative trace metal analysis at the parts-per-trillion (ppt) level.



Assay (HClO ₄ , w/w)	.....	65 - 71 %
Aluminum (Al)	.....	100 ppt (pg/g) max.
Antimony (Sb)	.....	100 ppt (pg/g) max.
Arsenic (As)	.....	100 ppt (pg/g) max.
Barium (Ba)	.....	100 ppt (pg/g) max.
Beryllium (Be)	.....	100 ppt (pg/g) max.
Bismuth (Bi)	.....	10 ppt (pg/g) max.
Cadmium (Cd)	.....	10 ppt (pg/g) max.
Calcium (Ca)	.....	100 ppt (pg/g) max.
Cerium (Ce)	.....	10 ppt (pg/g) max.
Cesium (Cs)	.....	10 ppt (pg/g) max.
Cobalt (Co)	.....	100 ppt (pg/g) max.
Copper (Cu)	.....	100 ppt (pg/g) max.
Dysprosium (Dy)	.....	10 ppt (pg/g) max.
Erbium (Er)	.....	10 ppt (pg/g) max.
Europium (Eu)	.....	10 ppt (pg/g) max.
Gadolinium (Gd)	.....	10 ppt (pg/g) max.
Gallium (Ga)	.....	10 ppt (pg/g) max.
Hafnium (Hf)	.....	Information only
Holmium (Ho)	.....	10 ppt (pg/g) max.
Indium (In)	.....	10 ppt (pg/g) max.
Iron (Fe)	.....	100 ppt (pg/g) max.
Lanthanum (La)	.....	10 ppt (pg/g) max.
Lead (Pb)	.....	10 ppt (pg/g) max.
Lithium (Li)	.....	100 ppt (pg/g) max.
Lutetium (Lu)	.....	10 ppt (pg/g) max.
Magnesium (Mg)	.....	100 ppt (pg/g) max.
Manganese (Mn)	.....	100 ppt (pg/g) max.
Molybdenum (Mo)	.....	100 ppt (pg/g) max.
Neodymium (Nd)	.....	10 ppt (pg/g) max.
Nickel (Ni)	.....	100 ppt (pg/g) max.
Niobium (Nb)	.....	Information only
Palladium (Pd)	.....	10 ppt (pg/g) max.
Platinum (Pt)	.....	100 ppt (pg/g) max.
Potassium (K)	.....	100 ppt (pg/g) max.
Praseodymium (Pr)	.....	10 ppt (pg/g) max.
Rhodium (Rh)	.....	10 ppt (pg/g) max.
Rubidium (Rb)	.....	10 ppt (pg/g) max.
Samarium (Sm)	.....	10 ppt (pg/g) max.
Scandium (Sc)	.....	100 ppt (pg/g) max.
Silver (Ag)	.....	100 ppt (pg/g) max.
Sodium (Na)	.....	100 ppt (pg/g) max.
Strontium (Sr)	.....	100 ppt (pg/g) max.
Tantalum (Ta)	.....	Information only
Tellurium (Te)	.....	10 ppt (pg/g) max.
Terbium (Tb)	.....	10 ppt (pg/g) max.
Thallium (Tl)	.....	100 ppt (pg/g) max.
Thorium (Th)	.....	10 ppt (pg/g) max.
Thulium (Tm)	.....	10 ppt (pg/g) max.
Tin (Sn)	.....	100 ppt (pg/g) max.
Titanium (Ti)	.....	100 ppt (pg/g) max.
Tungsten (W)	.....	Information only
Uranium (U)	.....	10 ppt (pg/g) max.
Vanadium (V)	.....	100 ppt (pg/g) max.
Ytterbium (Yb)	.....	10 ppt (pg/g) max.
Yttrium (Y)	.....	10 ppt (pg/g) max.
Zinc (Zn)	.....	100 ppt (pg/g) max.
Zirconium (Zr)	100 ppt (pg/g) max.

Size	Packaging	Cat. No.
500 mL	FEP Bottle	CA87003-230

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Perchloric Acid, BDH ARISTAR® PLUS

High purity acid for quantitative trace metal analysis at the parts-per-billion (ppb) level.



Assay (HClO ₄ , w/w)	65 - 71%
Color (APHA)	10 max.
Aluminum (Al)	1 ppb max.
Antimony (Sb)	0.5 ppb max.
Arsenic (As)	0.5 ppb max.
Barium (Ba)	1 ppb max.
Beryllium (Be)	0.5 ppb max.
Bismuth (Bi)	0.5 ppb max.
Cadmium (Cd)	1 ppb max.
Calcium (Ca)	1 ppb max.
Cerium (Ce)	0.5 ppb max.
Cesium (Cs)	0.5 ppb max.
Cobalt (Co)	0.5 ppb max.
Copper (Cu)	0.5 ppb max.
Dysprosium (Dy)	0.5 ppb max.
Erbium (Er)	0.5 ppb max.
Europium (Eu)	0.5 ppb max.
Gadolinium (Gd)	0.5 ppb max.
Gallium (Ga)	0.5 ppb max.
Gold (Au)	0.5 ppb max.
Hafnium (Hf)	Information only
Holmium (Ho)	0.5 ppb max.
Indium (In)	0.5 ppb max.
Iron (Fe)	1 ppb max.
Lanthanum (La)	0.5 ppb max.
Lead (Pb)	1 ppb max.
Lithium (Li)	0.5 ppb max.
Lutetium (Lu)	0.5 ppb max.
Magnesium (Mg)	1 ppb max.
Manganese (Mn)	1 ppb max.
Molybdenum (Mo)	0.5 ppb max.
Neodymium (Nd)	0.5 ppb max.
Nickel (Ni)	1 ppb max.
Niobium (Nb)	Information only
Palladium (Pd)	0.5 ppb max.
Platinum (Pt)	0.5 ppb max.
Potassium (K)	1 ppb max.
Praseodymium (Pr)	0.5 ppb max.
Rhodium (Rh)	0.5 ppb max.
Rubidium (Rb)	0.5 ppb max.
Samarium (Sm)	0.5 ppb max.
Scandium (Sc)	0.5 ppb max.
Silver (Ag)	1 ppb max.
Sodium (Na)	1 ppb max.
Strontium (Sr)	0.5 ppb max.
Tantalum (Ta)	Information only
Tellurium (Te)	0.5 ppb max.
Terbium (Tb)	0.5 ppb max.
Thallium (Tl)	0.5 ppb max.
Thorium (Th)	1 ppb max.
Thulium (Tm)	0.5 ppb max.
Tin (Sn)	1 ppb max.
Titanium (Ti)	1 ppb max.
Tungsten (W)	Information only
Uranium (U)	0.5 ppb max.
Vanadium (V)	0.5 ppb max.
Ytterbium (Yb)	0.5 ppb max.
Yttrium (Y)	0.5 ppb max.
Zinc (Zn)	1 ppb max.
Zirconium (Zr)	0.5 ppb max.

Size	Packaging	Cat. No.
500 mL	Glass Bottle	CA87003-265
2.5 L	Poly-Coated Glass Bottle	CA87003-267

Nitric Acid, BDH ARISTAR® ULTRA

Ultra high purity acid for quantitative trace metal analysis at the parts-per-trillion (ppt) level.



Assay (HNO ₃ , w/w)	67 - 70%
Aluminum (Al)	20 ppt (pg/g) max.
Antimony (Sb)	10 ppt (pg/g) max.
Arsenic (As)	20 ppt (pg/g) max.
Barium (Ba)	10 ppt (pg/g) max.
Beryllium (Be)	10 ppt (pg/g) max.
Bismuth (Bi)	10 ppt (pg/g) max.
Boron (B)	10 ppt (pg/g) max.
Cadmium (Cd)	10 ppt (pg/g) max.
Calcium (Ca)	10 ppt (pg/g) max.
Cerium (Ce)	10 ppt (pg/g) max.
Cesium (Cs)	10 ppt (pg/g) max.
Chromium (Cr)	10 ppt (pg/g) max.
Cobalt (Co)	10 ppt (pg/g) max.
Copper (Cu)	10 ppt (pg/g) max.
Dysprosium (Dy)	1 ppt (pg/g) max.
Erbium (Er)	1 ppt (pg/g) max.
Europium (Eu)	1 ppt (pg/g) max.
Gadolinium (Gd)	1 ppt (pg/g) max.
Gallium (Ga)	10 ppt (pg/g) max.
Germanium (Ge)	10 ppt (pg/g) max.
Gold (Au)	20 ppt (pg/g) max.
Hafnium (Hf)	10 ppt (pg/g) max.
Holmium (Ho)	1 ppt (pg/g) max.
Indium (In)	1 ppt (pg/g) max.
Iron (Fe)	10 ppt (pg/g) max.
Lanthanum (La)	1 ppt (pg/g) max.
Lead (Pb)	10 ppt (pg/g) max.
Lithium (Li)	10 ppt (pg/g) max.
Lutetium (Lu)	1 ppt (pg/g) max.
Magnesium (Mg)	10 ppt (pg/g) max.
Manganese (Mn)	10 ppt (pg/g) max.
Mercury (Hg)	50 ppt (pg/g) max.
Molybdenum (Mo)	10 ppt (pg/g) max.
Neodymium (Nd)	1 ppt (pg/g) max.
Nickel (Ni)	20 ppt (pg/g) max.
Niobium (Nb)	1 ppt (pg/g) max.
Palladium (Pd)	20 ppt (pg/g) max.
Platinum (Pt)	20 ppt (pg/g) max.
Potassium (K)	10 ppt (pg/g) max.
Praseodymium (Pr)	1 ppt (pg/g) max.
Rhenium (Re)	10 ppt (pg/g) max.
Rhodium (Rh)	10 ppt (pg/g) max.
Rubidium (Rb)	10 ppt (pg/g) max.
Ruthenium (Ru)	20 ppt (pg/g) max.
Samarium (Sm)	1 ppt (pg/g) max.
Scandium (Sc)	10 ppt (pg/g) max.
Selenium (Se)	Information only
Silver (Ag)	10 ppt (pg/g) max.
Sodium (Na)	10 ppt (pg/g) max.
Strontium (Sr)	10 ppt (pg/g) max.
Tantalum (Ta)	Information only
Tellurium (Te)	1 ppt (pg/g) max.
Terbium (Tb)	1 ppt (pg/g) max.
Thallium (Tl)	10 ppt (pg/g) max.
Thorium (Th)	1 ppt (pg/g) max.
Thulium (Tm)	1 ppt (pg/g) max.
Tin (Sn)	20 ppt (pg/g) max.
Titanium (Ti)	10 ppt (pg/g) max.
Tungsten (W)	10 ppt (pg/g) max.
Uranium (U)	1 ppt (pg/g) max.
Vanadium (V)	10 ppt (pg/g) max.
Ytterbium (Yb)	1 ppt (pg/g) max.
Yttrium (Y)	1 ppt (pg/g) max.
Zinc (Zn)	10 ppt (pg/g) max.

Size	Packaging	Cat. No.
500 mL	FEP Bottle	CA87003-226
1 L	FEP Bottle	CA87003-228
2 L	FEP Bottle	CA87003-658

Nitric Acid BDH ARISTAR® PLUS

High purity acid for quantitative trace metal analysis at the parts-per-billion (ppb) level.



Assay (HNO ₃ , w/w).....	67 - 70%	Neodymium (Nd)	0.1 ppb max.
Color (APHA)	10 max.	Nickel (Ni)	0.5 ppb max.
Aluminum (Al)	1 ppb max.	Niobium (Nb)	0.1 ppb max.
Antimony (Sb)	0.5 ppb max.	Palladium (Pd)	0.5 ppb max.
Arsenic (As)	0.5 ppb max.	Platinum (Pt)	0.5 ppb max.
Barium (Ba)	0.1 ppb max.	Potassium (K)	1 ppb max.
Beryllium (Be)	0.1 ppb max.	Praseodymium (Pr)	0.1 ppb max.
Bismuth (Bi)	0.1 ppb max.	Rhenium (Re)	0.1 ppb max.
Boron (B)	1 ppb max.	Rhodium (Rh)	0.5 ppb max.
Cadmium (Cd)	0.5 ppb max.	Rubidium (Rb)	0.1 ppb max.
Calcium (Ca)	1 ppb max.	Ruthenium (Ru)	0.5 ppb max.
Cerium (Ce)	0.1 ppb max.	Samarium (Sm)	0.1 ppb max.
Cesium (Cs)	0.1 ppb max.	Scandium (Sc)	0.1 ppb max.
Chromium (Cr)	1 ppb max.	Selenium (Se)	1 ppb max.
Cobalt (Co)	0.5 ppb max.	Silver (Ag)	0.1 ppb max.
Copper (Cu)	0.5 ppb max.	Sodium (Na)	1 ppb max.
Dysprosium (Dy)	0.1 ppb max.	Strontium (Sr)	0.1 ppb max.
Erbium (Er)	0.1 ppb max.	Tantalum (Ta)	Information only
Europium (Eu)	0.1 ppb max.	Tellurium (Te)	0.1 ppb max.
Gadolinium (Gd)	0.1 ppb max.	Terbium (Tb)	0.1 ppb max.
Gallium (Ga)	0.1 ppb max.	Thallium (Tl)	0.1 ppb max.
Germanium (Ge)	0.1 ppb max.	Thulium (Tm)	0.1 ppb max.
Gold (Au)	0.1 ppb max.	Tin (Sn)	0.5 ppb max.
Hafnium (Hf)	0.1 ppb max.	Titanium (Ti)	0.5 ppb max.
Holmium (Ho)	0.1 ppb max.	Tungsten (W)	0.1 ppb max.
Indium (In)	0.1 ppb max.	Uranium (U)	0.1 ppb max.
Iron (Fe)	1 ppb max.	Vanadium (V)	0.5 ppb max.
Lanthanum (La)	0.1 ppb max.	Ytterbium (Yb)	0.1 ppb max.
Lead (Pb)	0.1 ppb max.	Yttrium (Y)	0.1 ppb max.
Lithium (Li)	0.1 ppb max.	Zinc (Zn)	0.5 ppb max.
Lutetium (Lu)	0.1 ppb max.	Zirconium (Zr)	0.1 ppb max.
Magnesium (Mg)	1 ppb max.	Chloride (Cl-)	0.2 ppm max.
Manganese (Mn)	0.1 ppb max.	Total Phosphorus (P)	0.01 ppm max.
Mercury (Hg)	0.1 ppb max.	Total Sulfur (S)	0.3 ppm max.
Molybdenum (Mo)	0.1 ppb max.		

Size	Packaging	Cat. No.
500 mL	Bottle	CA87003-259
2.5 L	Poly bottle	CA87003-261

Chemical Capabilities—Tried. Trusted. True.

VWR chemicals are suitable for a multitude of analytical and production applications.

Research and Development Applications:

- Acids
- Analytical Reagents
- Buffers
- Fine Chemical Salts
- Solutions
- Solvents
- Standards
- ...and more

Production Applications:

- ACS Grade Chemicals
- Biological Buffers
- Excipients
- Fine Chemicals
- High Purity Solvents
- Inorganic Salts
- Regulated Chemicals
- ...and more

Chemical Related Services:

- Custom Blends and/or Packaging
- Change Notice Verification
- Instant Trackability
- Sourcing
- Storage
- Testing

VWR offers thousands of chemicals from our key brands.

Contact your local VWR Sales Representative or call **800.932.5000** to learn more about how VWR can help you find complete solutions for all of your chemical needs.



Sulfuric Acid, BDH ARISTAR® ULTRA

Ultra high purity acid for quantitative trace metal analysis at the parts-per-trillion (ppt) level.



Assay (H ₂ SO ₄ w/w)	93 - 98 %
Aluminum (Al)	50 ppt (pg/g) max.
Antimony (Sb)	50 ppt (pg/g) max.
Arsenic (As)	500 ppt (pg/g) max.
Barium (Ba)	10 ppt (pg/g) max.
Beryllium (Be)	10 ppt (pg/g) max.
Bismuth (Bi)	10 ppt (pg/g) max.
Cadmium (Cd)	10 ppt (pg/g) max.
Calcium (Ca)	50 ppt (pg/g) max.
Cerium (Ce)	10 ppt (pg/g) max.
Cesium (Cs)	10 ppt (pg/g) max.
Chromium (Cr)	10 ppt (pg/g) max.
Cobalt (Co)	10 ppt (pg/g) max.
Copper (Cu)	10 ppt (pg/g) max.
Dysprosium (Dy)	10 ppt (pg/g) max.
Erbium (Er)	10 ppt (pg/g) max.
Europium (Eu)	10 ppt (pg/g) max.
Gadolinium (Gd)	10 ppt (pg/g) max.
Gallium (Ga)	10 ppt (pg/g) max.
Germanium (Ge)	100 ppt (pg/g) max.
Hafnium (Hf)	10 ppt (pg/g) max.
Holmium (Ho)	10 ppt (pg/g) max.
Indium (In)	10 ppt (pg/g) max.
Iron (Fe)	50 ppt (pg/g) max.
Lanthanum (La)	10 ppt (pg/g) max.
Lead (Pb)	10 ppt (pg/g) max.
Lithium (Li)	10 ppt (pg/g) max.
Lutetium (Lu)	10 ppt (pg/g) max.
Magnesium (Mg)	50 ppt (pg/g) max.
Manganese (Mn)	10 ppt (pg/g) max.
Mercury (Hg)	100 ppt (pg/g) max.
Molybdenum (Mo)	10 ppt (pg/g) max.
Neodymium (Nd)	10 ppt (pg/g) max.
Nickel (Ni)	50 ppt (pg/g) max.
Niobium (Nb)	10 ppt (pg/g) max.
Palladium (Pd)	Information only
Platinum (Pt)	Information only
Potassium (K)	50 ppt (pg/g) max.
Praseodymium (Pr)	10 ppt (pg/g) max.
Rhodium (Rh)	50 ppt (pg/g) max.
Rubidium (Rb)	10 ppt (pg/g) max.
Samarium (Sm)	10 ppt (pg/g) max.
Scandium (Sc)	10 ppt (pg/g) max.
Selenium (Se)	500 ppt (pg/g) max.
Silver (Ag)	50 ppt (pg/g) max.
Sodium (Na)	50 ppt (pg/g) max.
Strontium (Sr)	10 ppt (pg/g) max.
Tantalum (Ta)	Information only
Tellurium (Te)	50 ppt (pg/g) max.
Terbium (Tb)	10 ppt (pg/g) max.
Thallium (Tl)	10 ppt (pg/g) max.
Thorium (Th)	10 ppt (pg/g) max.
Thulium (Tm)	10 ppt (pg/g) max.
Tin (Sn)	50 ppt (pg/g) max.
Titanium (Ti)	50 ppt (pg/g) max.
Tungsten (W)	10 ppt (pg/g) max.
Uranium (U)	10 ppt (pg/g) max.
Vanadium (V)	10 ppt (pg/g) max.
Ytterbium (Yb)	10 ppt (pg/g) max.
Yttrium (Y)	10 ppt (pg/g) max.
Zinc (Zn)	50 ppt (pg/g) max.
Zirconium (Zr)	10 ppt (pg/g) max.

Size	Packaging	Cat. No.
500 mL	FEP Bottle	CA87003-232
1 L	FEP Bottle	CA87003-234

Sulfuric Acid, BDH ARISTAR® PLUS

High purity acid for quantitative trace metal analysis at the parts-per-billion (ppb) level.



Assay (H ₂ SO ₄ w/w)	93 - 98%
Color	10 APHA max.
Aluminum (Al)	1 ppb max.
Antimony (Sb)	1 ppb max.
Arsenic (As)	0.5 ppb max.
Barium (Ba)	0.1 ppb max.
Beryllium (Be)	0.1 ppb max.
Bismuth (Bi)	0.1 ppb max.
Cadmium (Cd)	0.5 ppb max.
Calcium (Ca)	1 ppb max.
Cerium (Ce)	0.1 ppb max.
Cesium (Cs)	0.1 ppb max.
Chromium (Cr)	0.5 ppb max.
Cobalt (Co)	0.5 ppb max.
Copper (Cu)	0.5 ppb max.
Dysprosium (Dy)	0.1 ppb max.
Erbium (Er)	0.1 ppb max.
Europium (Eu)	0.1 ppb max.
Gadolinium (Gd)	0.1 ppb max.
Gallium (Ga)	0.1 ppb max.
Germanium (Ge)	1 ppb max.
Gold (Au)	0.5 ppb max.
Hafnium (Hf)	0.1 ppb max.
Holmium (Ho)	0.1 ppb max.
Indium (In)	0.1 ppb max.
Iron (Fe)	1 ppb max.
Lanthanum (La)	0.1 ppb max.
Lead (Pb)	0.1 ppb max.
Lithium (Li)	0.5 ppb max.
Lutetium (Lu)	0.1 ppb max.
Magnesium (Mg)	1 ppb max.
Manganese (Mn)	0.5 ppb max.
Mercury (Hg)	0.1 ppb max.
Molybdenum (Mo)	0.5 ppb max.
Neodymium (Nd)	0.1 ppb max.
Nickel (Ni)	0.5 ppb max.
Niobium (Nb)	0.1 ppb max.
Palladium (Pd)	Information only
Platinum (Pt)	Information only
Potassium (K)	1 ppb max.
Praseodymium (Pr)	0.1 ppb max.
Rhodium (Rh)	0.5 ppb max.
Rubidium (Rb)	0.5 ppb max.
Samarium (Sm)	0.1 ppb max.
Scandium (Sc)	0.1 ppb max.
Selenium (Se)	10 ppb max.
Silver (Ag)	1 ppb max.
Sodium (Na)	1 ppb max.
Strontium (Sr)	0.5 ppb max.
Tantalum (Ta)	Information only
Tellurium (Te)	0.1 ppb max.
Terbium (Tb)	0.1 ppb max.
Thallium (Tl)	0.1 ppb max.
Thorium (Th)	0.1 ppb max.
Thulium (Tm)	0.1 ppb max.
Tin (Sn)	1 ppb max.
Titanium (Ti)	1 ppb max.
Tungsten (W)	0.5 ppb max.
Uranium (U)	0.1 ppb max.
Vanadium (V)	0.5 ppb max.
Ytterbium (Yb)	0.1 ppb max.
Yttrium (Y)	0.1 ppb max.
Zinc (Zn)	1 ppb max.
Zirconium (Zr)	0.5 ppb max.
Chloride (Cl ⁻)	0.7 ppm max.
Total Phosphorus (P)	0.05 ppm max.
Nitrate (NO ₃)	0.2 ppm max.
Substances reducing permanganate (KMnO ₄)	20 ppm max.

Size	Packaging	Cat. No.
500 mL	Glass Bottle	CA87003-271
2.5 L	Poly-Coated Glass Bottle	CA87003-273

VWR® Traceable® Spatula Balance™

Unique spatula both scoops material and instantly displays weight. Balance with digital display is located in the easy-to-grip handle. Chemical/corrosion-resistant ABS plastic construction allows transferring of materials without sticking. Spatula balance is suitable for transferring and weighing crystals, granulated material, solids, liquids, precipitates, and chemicals. Large scoop minimizes spilling. Three-position soft-touch keys in the handle activate tares, hold (freezes the display), and gram/ounce functions. LCD indicates low battery. See-through scoop detaches from balance for effortless dishwasher-safe cleaning.

A certificate is provided to indicate instrument traceability to standards provided by the National Institute of Standards and Technology.

Ordering Information: Supplied with two AAA batteries.



Accuracy	±0.2 g or 0.25% (whichever is greater)
Dimensions	22.9L x 5.1W x 2.5D cm (9 x 2 x 1")
Graduation Increments	5 mL
Graduation Range	5–30 mL
Liquid Capacity	32 mL (1.1 fl. oz.)
Readability	0.1 g (0.005 oz.)
Repeatability	0.1 g
Solid Capacity	32 cm ³ (1.95 cu. in.)
Unit Weight	85 g (3 oz.)
Weighing Range	0–300 g (0–10.6 oz.)

Description	Cat. No.
Spatula Balance	89047-296

VWR® Premium Aluminum Foil

Premium, ultra-clean aluminum foil is strong and puncture-resistant. Foil is able to withstand extreme heat and cold, and has the lowest moisture-vapor transfer rate of all wrapping materials. Standard, heavy-duty, and extra heavy-duty formats are supplied as boxed rolls with a metal tear-off bar for ease in obtaining exact size requirements. The pop-up dispenser contains 200 individual sheets.



Description	Length	Thickness	Cat. No.
Heavy-Duty	15.2 m (50')	22.86 µm (0.9 mil)	89107-732

VWR® Culture Tubes, Polypropylene, Colored

Disposable, nonsterile, endotoxin-free tubes are made of ultra-clear resin. Autoclavable.



Dimensions	12 x 75 mm
Volume	5 mL
Color	Cat. No.
Yellow	60818-432
Orange	60818-433
Red	60818-434
Purple	60818-436
Blue	60818-437
Green	60818-438

Comprehensive Selection of Products

To offer our customers the best possible selection of products, VWR maintains strategic alliances with thousands of manufacturers. We offer the industry's widest, most objective range of cost-efficient products with the best support, and introduce thousands of new products every year to fulfill innovative requests. To order, call **1.800.932.5000** or visit **ca.vwr.com**.



VWR® Culture Tubes, Plastic, with Dual-Position Caps

Choose from clear polystyrene or natural polypropylene disposable tubes. Polypropylene tubes are autoclavable to 122°C (252°F) and freezable to -90°C (-194°F). Tubes feature dual-position polyethylene caps (not autoclavable). Dual-position caps permit sample aspiration.

Ordering Information: Caps for nonsterile tubes are packed separately.



Volume	O.D. x L	Sterility	Packaging	Cat. No.
Polypropylene				
5 mL	12 x 75 mm	Nonsterile	Bulk	20170-579
5 mL	12 x 75 mm	Sterile	25/Bag	60818-576
5 mL	12 x 75 mm	Sterile	125/Bag	60818-500
14 mL	17 x 100 mm	Nonsterile	Bulk	60818-664
14 mL	17 x 100 mm	Sterile	25/Bag	60818-725
14 mL	17 x 100 mm	Sterile	125/Bag	60818-689
Polystyrene				
5 mL	12 x 75 mm	Nonsterile	Bulk	60818-419
5 mL	12 x 75 mm	Sterile	25/Bag	60818-565
5 mL	12 x 75 mm	Sterile	125/Bag	60818-496
14 mL	17 x 100 mm	Nonsterile	Bulk	60818-661
14 mL	17 x 100 mm	Sterile	25/Bag	60818-703
14 mL	17 x 100 mm	Sterile	125/Bag	60818-667

VWR® SuperSpin™ Microcentrifuge Tubes, Polypropylene

- Withstand Spins up to 35,000 g
- Ideal for Vortexing and Shaking Tables
- RNase-, DNase-, and Endotoxin-Free

These 1.5mL tubes incorporate a high-strength wall and can be centrifuged to twice the g-force that most other microcentrifuge tubes can withstand. The GateFree™ design and clear polypropylene resin ensure a clear view of the pellet. Tubes also feature flat, pierceable, frosted caps and a side labeling surface. The ergonomically designed caps with smooth surfaces help reduce the potential for repetitive strain injuries. Ideal for phenol/chloroform extractions. Tubes fit all common rotors. Steam autoclavable to 122°C (252°F) and freezable to -90°C (-130°F).



Note: Because tubes have a tightly fitting cap, they should not be used for boiling.

Ordering Information: Rainbow pack 20170-022 contains 100 tubes each of green, blue, red, orange, and yellow in separate bags.

Maximum RCF	35,000 g
Volume	1.5 mL
Color	
Rainbow	20170-022
Green	20170-024
Blue	20170-026
Purple	20170-028
Red	20170-030
Orange	20170-032
Yellow	20170-034
Amber	20170-036
Natural	20170-038
Accessories	
Description	Cat. No.
Microtube Opener	20170-020

Petri Dishes, 50mm, Sterile, Pall® Life Sciences

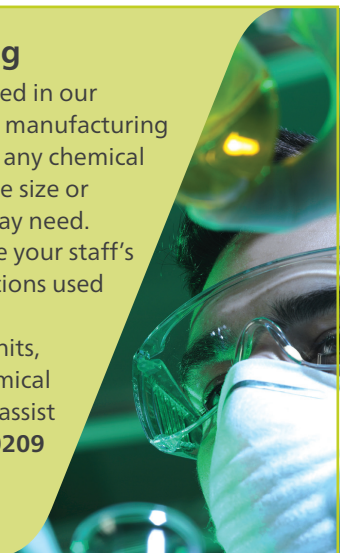
Polystyrene 50x9mm dishes are sterilized by gamma irradiation. Design allows easy, one-hand opening and provides tight seal to lock in humidity. Easy-stacking base. Accepts 47mm membrane filter. Dish 25388-640 comes with preloaded absorbent pad. Dishes 25388-606 and 25388-640 are packed in two plastic trays of 50 dishes with hinged, protective covers. Dish 25388-581 comes in a bulk pack divided into 20 resealable plastic sleeves of 25 units each.



Description	Packaging	Supplier No.	Cat. No.
Plain	Bulk Pack Sleeve	7232	CA25388-581
Plain	Plastic Tray	7242	CA25388-606
With Preloaded Absorbent Pad	Plastic Tray	7245	CA25388-640

Custom Manufacturing

In addition to the products listed in our catalogue, Anachemia has the manufacturing capabilities to produce almost any chemical formulation or custom package size or type that your organization may need. Whether your goal is to reduce your staff's time spent preparing formulations used in your lab or to have product pre-packaged in single dose units, Anachemia's experienced chemical manufacturing personnel can assist you. Contact us at (800) 361-0209 to request a quote on custom chemical products.





VWR® Petri Dishes, Sterile

- Optically Clear for Easy Reading
- Venting Ribs for Free Air Circulation
- Consistently Flat Bottoms

Ideal for all types of culturing where accurate bacterial count or microscopic examination is required. Molded from virgin polystyrene, these dishes provide distortion-free visibility. Engineered for optimum flatness to provide uniform agar thickness. Venting ribs on inside cover allow free circulation of air and prevent condensation buildup, enabling optimum culture growth and media shelf life. Sterilized by gamma radiation, E-beam, or ethylene oxide (EO) gas.

Slippable dishes can slide freely on top of each other to facilitate automated handling. Space saver dishes are more shallow to conserve storage space. Fully stackable dishes feature rings on the lid and bottom to help dishes stack better without sliding, making them ideal for manual handling. Semi-stackable dishes stack, but are somewhat slippable and suitable for automated handling. Stackable for automation style dishes are somewhat slippable and feature a recessed area inside the lid for a secure, compact fit.

Ordering Information: Packaged sterile in easy-open, linear-tear bags. Petri dish 25384-092 features slightly larger interior dimensions for better seating of filter paper.



Description	Dia. x H	Packaging	Cat. No.
Gamma Radiation Sterilized			
Slippable	100 x 15 mm	20/Bag	25384-302
Slippable	150 x 15 mm	20/Bag	25384-326
Space Saver	100 x 10 mm	30/Bag	25384-324
Fully Stackable	60 x 15 mm	20/Bag	25384-092
Semi-Stackable	60 x 15 mm	20/Bag	25384-090
Semi-Stackable	100 x 15 mm	20/Bag	25384-088
Stackable for Automation	100 x 15 mm	24/Bag	25384-094
E-Beam Sterilized			
Fully Stackable	100 x 25 mm	13/Bag	89107-632
EO Gas Sterilized			
Fully Stackable	60 x 15 mm	20/Bag	25384-168



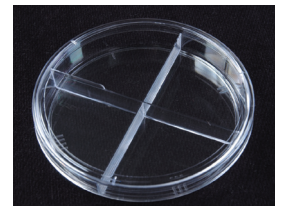
VWR® Petri Dishes, Segmented, Sterile

- Optically Clear for Easy Reading
- Venting Ribs for Free Air Circulation
- Consistently Flat Bottoms

Ideal for all types of culturing where accurate bacterial count or microscopic examination is required. Molded from virgin polystyrene, these dishes provide distortion-free visibility. Engineered for optimum flatness to provide uniform agar thickness. Venting ribs on inside cover allow free circulation of air and prevent condensation buildup, enabling optimum culture growth and media shelf life. Sterilized by gamma radiation.

Segmented dishes have divided bottoms with two (I-plate), three (Y-plate), or four (X-plate) sections. Slippable style allows dishes to slide freely on top of each other to facilitate automated handling. Semi-stackable style dishes feature rings on the lid and bottom to help dishes stack, but are somewhat slippable and suitable for automated handling. Stackable for automation style dishes are somewhat slippable and feature a recessed area inside the lid for a secure, compact fit. Fully stackable style dishes feature rings on the lid and bottom to help dishes stack better without sliding, making them ideal for manual handling.

Ordering Information: Packaged sterile in easy-open, linear-tear bags.



Description	Packaging	Cat. No.
Gamma Radiation Sterilized		
I-Plate	20/Bag	25384-304
Y-Plate	20/Bag	25384-306
X-Plate	20/Bag	25384-308
Semi-Stackable Dishes		
I-Plate	20/Bag	25384-310
Stackable for Automation Dishes		
I-Plate	24/Bag	25384-312
Y-Plate	24/Bag	25384-314
X-Plate	24/Bag	25384-316
Fully Stackable Dishes		
I-Plate	20/Bag	25384-344
X-Plate	20/Bag	25384-348

FOOD ANALYSIS

MOISTURE

TITRATION

VISCOSITY

REFRACTOMETRY

SPECTROSCOPY

CHROMATOGRAPHY

SPECIAL ANALYSIS

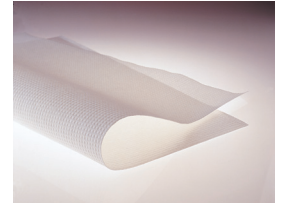
WATER ANALYSIS

Nalgene® VERSI-DRY® Lab Table Soakers, Thermo Scientific

Soakers are designed to speed clean-up time and protect lab tabletops from acids, dyes, and radioactive applications. Soakers feature thousands of THIRSTY CELLS™ that quickly absorb spills. Soft surface also provides a cushion for breakable equipment. Nonskid, chemical-resistant, waterproof polyethylene backing holds soaker securely in place.

Standard VERSI-DRY® soakers are white and absorb 750mL/m². Super absorbent soakers are blue and absorb 1050mL/m².

Ordering Information: Available in rolls, mats, and convenient waste-reducing dispenser packs.



W x L	Type	Supplier No.	Cat. No.
Standard White Soakers			
45.7 cm x 50.8 cm (18" x 20")	Mat	62080-00	52857-110
50.8 cm x 45.7 m (20" x 150')	Roll	62065-00	52857-104
50.8 cm x 91.4 m (20" x 300')	Roll	62060-00	52857-120
Super Absorbent Blue Soakers			
45.7 cm x 50.8 cm (18" x 20")	Mat	74218-00	73520-264
45.7 cm x 50.8 cm (18" x 20")	Mat	74018-00	52857-116
50.8 cm x 109.2 cm (20" x 43")	Mat	74043-00	52857-118
50.8 cm x 76.2 m (20" x 250')	Dispenser Pack	74000-00	52857-112

VWR® COLLECTION



VWR® Moisture Meter

- Serial RS-232 Output
- Traceable®

This moisture meter is designed to display the moisture content of wood, wood products, and paper. The memory contains nine material groups including fiberboard, construction board, and calibrations for 150 species of wood. The unit provides for automatic as well as manual temperature compensations. It features a serial RS-232 output, which allows it to be connected to a computer or data logger for monitoring and keeping results. At the touch of a button, the instrument recalls highest, lowest, and average readings. A data HOLD button freezes the display to capture readings.

Data logger captures and stores up to 8000 readings from all meters. Readings may be taken at intervals from 1 second to 99 hours. Stored readings may be downloaded to any PC and viewed. Data files can also be read on spreadsheets, databases, and statistical programs. Supplied complete with 91.4cm (36") serial cable with D9F computer plug, 8.9cm (3 1/2") diskette, and four AA alkaline batteries.

Data acquisition system captures and stores readings on any PC. Information can be imported into databases. Supplied with 8.9cm (3 1/2") diskette and 91.4cm (36") serial cable with D9F plug.

A serial numbered certificate is provided from an ISO 17025 calibration laboratory to indicate instrument traceability to standards provided by the National Institute of Standards and Technology.

Ordering Information: Moisture meter is complete with probe, 10 spare pins, 9V alkaline battery, and serial computer output.



Cable Length	1 m (3.3')
Humidity Accuracy	±4% of the reading + 5 digits
Humidity Range	9 to 30%
Humidity Resolution	0.1%
Main Unit Dimensions	18L x 7.6W x 3.2H cm (7 x 3 x 1 1/4")
Probe Dimensions	18L x 2.5dia. cm (7 x 1")
Weight	270 g (9.5 oz.)

Description	Cat. No.
Moisture Meter	21800-020
Accessories	
Description	Cat. No.
Data Logger	21800-026
Adapter	61161-384
Data Acquisition System	61161-386

VWR® Data Logger

- Stores up to 8000 Bytes

Unit captures and stores up to 8000 bytes (over 1000 readings). Readings may be taken at intervals from 1 second to 99 hours. Stored readings may be downloaded to any PC and viewed. Data can be read as-is, or imported to spreadsheets, databases, and statistical programs. For use with Traceable™ meters featuring an RS-232 output.

Ordering Information: Supplied with 91.4cm (36") serial cable with D9F computer plug, 8.9cm (3 1/2") Windows® diskette, and four AA alkaline batteries.

Description	Dimensions	Weight	Cat. No.
Data Logger	12.7H x 7.6W x 2.5D cm (5 x 3 x 1")	199 g (7 oz.)	21800-026



VWR® Easy-Use™ 9-Volt Accessory Adapter

Adapter replaces the 9-volt battery and permits constant monitoring. For 115VAC.

Description	Voltage	Cat. No.
Adapter	115 V	61161-384

Moisture Analyzers, MB Series, Ohaus®

Model MB23 and MB25 basic moisture analyzers combine high quality durable construction with easy one-button setup, ideal for operators of all skill levels. Feature fast and accurate results, large backlit LCD display, standard RS232 port, readabilities from 0.1% to 0.05%, compact footprint, and a choice of halogen or infrared heating.

Model MB35 and MB45 moisture analyzers are suitable for in-process testing. They feature a fast halogen heating element that provides uniform infrared heating and durability, a large backlit 128x64 pixel LCD display, standard RS-232 port for easy communication with printer or computer, multi-language display (English, Spanish, French), and a GLP compliant format when printed results are required. The analyzers also include an auto dry feature that automatically terminates a test when dryness is achieved.

The MB35 standard moisture analyzer features a maximum sample capacity of 35g, with a readability of 0.005g and repeatability of 0.05% (10g sample). The intuitive software establishes a simple user interface with simple three-key navigation for easy setup. The LCD display shows % moisture, actual weight, actual temperature, and test time. Moisture range: 0.05% to 100%. Timer: 1–120 minutes (30-second increments to 60min.; one-minute increments from 60–120min.).

The MB45 advanced moisture analyzer features a maximum sample capacity of 45g, with a readability of 0.001g and repeatability of 0.015% (10g sample). An integrated database stores up to 50 drying procedures for maximizing productivity. Features include four selectable automatic drying programs, four enhanced heating options, a statistical function for simple tracking and recording of standard deviation over time, a choice of three programmed end points for automatic test completion, and an audible signal after timed tests. Moisture range: 0.01% to 100%. Timer: 1–120 minutes (in 10-second increments).

UL listed. CSA certified. FCC approved. CE marked. Manufactured under an ISO 9001:2000 Registered Quality Management System.

Ordering Information: Manufacturer's two-year parts and labor warranty (U.S. and Canada).



Operating Temperature Range	5 to 40°C (41 to 104°F)
Pan Size	90 mm (3 1/2")
Sample Size	3 to 20 g typical, 0.5 g min.
Tare Range	To Capacity by Subtraction

Description	Electrical	Capacity	W x H x D	Readability	Repeatability (Std. Dev.)	Temperature Range	Shipping Weight	Supplier No.	Cat. No.
MB25 Basic Moisture Analyzer	100–240V, 50/60Hz	110 g	17 x 13 x 28 cm (6 1/2 x 5 x 11")	0.05% / 0.005 g	0.2% (3 g sample), 0.05% (10 g sample)	50 to 160°C in 5° increments	3.9 kg (8.5 lbs.)	83999803	97021-956
MB23 Basic Moisture Analyzer	100–240V, 50/60Hz	110 g	17 x 13 x 28 cm (6 1/2 x 5 x 11")	0.1% / 0.01 g	0.3% (3 g sample), 0.2% (10 g sample)	50 to 160°C in 5° increments	3.9 kg (8.5 lbs.)	83999801	97021-958

TitroLine alpha plus Compact Titrator, SI Analytics

Stand-alone titrator accommodates exchangeable burets with 5, 10, 20, and 50mL capacities. The unit displays an online curve on a large LCD display. A built-in applications library includes more than 100 preprogrammed methods; more than 40 methods can be customized and stored. The unit includes two pH/mv inputs, one polarized input, and one temperature input. Titrant additions are drift- or time-controlled. Dynamic, linear setup or preset end points. Up to five equivalence points per method. Equipped with two RS-232 ports and a port for standard printers.

Optional Windows®-compatible, TitrSoft 2.6 software provides control for additional titrators, an internal database for storage and logging, full control over sample changer sequence, and formula editing.

CE marked.



Accessories		
Description	Supplier No.	Cat. No.
Combination Silver (Ag) Electrode	AG6280PT	13502-916
Combination Redox Electrode	BLUELINE31	13502-918
Exchangeable Buret Head, 5 mL	285211038	14224-558
Exchangeable Buret Head, 10 mL	285211046	14224-560
Exchangeable Buret Head, 20 mL	285211054	14224-562
Exchangeable Buret Head, 50 mL	285211062	14224-564
Stand Rod, Stainless Steel	TZ1510	97040-152
Solids Trap, PVDF	TZ1721	97040-154
Weighing Funnel, 3 mL Glass	TZ1725	97040-156
PC Keyboard	TZ2835	97040-184
Combination pH Electrode	BLUELINE11	13502-914
Electrode Cable	LB1BNC	13502-920
Plastic Drying Tube	TZ2003	97040-176
Bottle Set for Titration Agent	TZ2004	97040-178
Bottle Attachment	TZ2008	97040-180
Tube Set, Three-Part	TZ3280	97040-188
Sucking Tube Valve	TZ3281	97040-190
Dosing Tube, 05M	TZ3282	97040-192
Connection Tube Valve	TZ3283	97040-194
Adapter for Merck Titripac®	TZ3300	97040-198
Tube Set	TZ3400	97040-200
Screw Caps	TZ3410	97040-202
Tubing, 5 m	TZ3425	97040-204
Tubing, 10 m	TZ3428	97040-206
Adapter for UK	TZ3689	97040-208

TitroLine® 6000 Titrators, Lab Synergy

TitroLine® 6000 titrator is designed with a multitude of benefits that make it an ideal entry into the potentiometric titration and the perfect choice for applications in the field of food, water/waste water and environmental analysis. Thanks to the high-resolution, precise pH/mV and "dead-stop" measuring interface it is possible to determine a wide range of parameters.

Additional features for the TitroLine 6000 are: high-resolution pH/mV measuring interface, measuring input for temperature measurement, measuring interface for polarisable electrodes ("dead-stop"), standard methods such as FOS/TAC, alkalinity, total acidity in soft drinks, linear and dynamic titration to equivalence point, titrations to pH, mV and μA end point, manual titrations and dosing tasks.

Ordering Information: Contact your VWR sales representative for more information.



Description	Supplier No.	Cat. No.
TitroLine® Basic Unit with Magnetic Stirrer (TM 235) and 50 mL Exchangeable Unit (WA 50), with Brown Glass Bottle for Titrant, GL 45 and S 40-Bottle Adapter, Tubes, Drip Tube and Titration Tip, with pH-Combination Electrode and Buffer Se	285220090	89429-378

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TitroLine® 7000 Titrators, Lab Synergy

The TitroLine® 7000 titrator can store up to 50 user methods. It also has the highest accuracy for measuring and calibrating through wireless sensor recognition for TitroLine SI Analytics ID-electrodes. The new electrodes with definite identification are sending their specific data wireless to the titrator. Therefore the TitroLine® 7000 always uses the correct calibration data and eliminates erroneous measurements. With a pH stat application, a given pH is first adjusted and then kept constant till a specific moment with an acid or a base. The pH stat titration is applied to the determination of the enzyme activity and the pH stat elution of soil sample at pH 4.

While running, the instrument is capable of monitoring the pH value during chemical syntheses. It is also capable of detecting and calculating up to 2 equivalence points during one titration. Making it possible to determine the Calcium and Magnesium hardness instead of only the total hardness.

Ordering Information: Contact your VWR sales representative for more information.



Description	Supplier No.	Cat. No.
TitroLine® 7000 Basic Unit with Magnetic Stirrer (TM 235) and 20 mL Interchangeable Module (WA 20), with Brown Glass Bottle for Titrant, (GL 45) and (S 40)-Bottle Adapter, Tubes, Drip Tube and Titration Tip, with pH Combination Electrode and Buffer Se	285220170	89429-390

AQUASTAR® Coulometric and Volumetric Reagents and Solvents, EMD Millipore

Since its invention by the German petroleum chemist, Karl Fischer, in the 1930's, the iodometric titration method that bears his name has become an increasingly popular analytical technique for quantifying water in a variety of industries. During this time, Karl Fischer titration has evolved from an esoteric novelty to a widely used instrumental method employed in Research & Development, Production, and Quality Control. Karl Fischer titration has been included in most key international Pharmacopeias, as well as in ISO, SOPs, and ASTM guidelines.

Since the 1980's, EMD Millipore has been marketing leading-edge, high performance reagents, quality water standards, and auxiliaries for Karl Fischer analysis under the Aquastar® brand name. During that time, the Aquastar® brand has become recognized for:

- Rapid titrations producing accurate reproducible results
- Innovative formulations for specialty applications
- Breadth of offerings
- Responsive customer service
- Knowledgeable technical support



Description	Size	Packaging	Supplier No.	Cat. No.
Coulometric Reagents				
CombiCoulomat Frit	500 mL	Glass Bottle	1.09255.0500	CA1.09255.0500
CombiCoulomat Fritless	500 mL	Glass Bottle	1.09257.0500	CA1.09257.0500
One Component Volumetric Reagents				
CombiTitrant 1	1 L	38-430 Poly-Coated Glass Bottle	1.88001.1038	CA1.88001.1038
CombiTitrant 1	1 L	GL45 Poly-Coated Glass Bottle	1.88001.1045	CA1.88001.1045
CombiTitrant 2	1 L	GL45 Poly-Coated Glass Bottle	1.88002.1045	CA1.88002.1045
CombiTitrant 5	1 L	GL45 Poly-Coated Glass Bottle	1.88005.1045	CA1.88005.1045
CombiTitrant 5	2.5 L	GL45 Poly-Coated Glass Bottle	1.88005.2545	CA1.88005.2545
Two Component Volumetric Reagents				
Titrant 2	1 L	GL45 Poly-Coated Glass Bottle	1.88011.1045	CA1.88011.1045
Volumetric Solvents				
CombiSolvent Keto	1 L	Glass Bottle	1.88007.1000	CA1.88007.1000
CombiSolvent, Methanol-Free	1 L	Glass Bottle	1.88008.1000	CA1.88008.1000
CombiMethanol	1 L	GL45 Poly-Coated Glass Bottle	1.88009.1045	CA1.88009.1045
CombiMethanol	2.5 L	GL45 Glass Bottle	1.88009.2545	CA1.88009.2545
Solvent (for Two-Component Titration)	1 L	GL45 Poly-Coated Glass Bottle	1.88015.1045	CA1.88015.1045
CombiSolvent Oils	1 L	38-430 Poly-Coated Glass Bottle	1.88020.1000	CA1.88020.1000
CombiSolvent Oils	1 L	GL45 Glass Bottle	1.88020.1045	CA1.88020.1045
CombiSolvent Fats (Foodstuffs)	1 L	Glass Bottle	1.88021.1000	CA1.88021.1000

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AQUASTAR® Auxiliary Reagents and Standards, EMD Millipore

Reagents and standards include a lot-specific Certificate of Analysis. NIST water standards include a certificate to indicate traceability to standards provided by the National Institute of Standards and Technology.



Description	Size	Packaging	Cat. No.
Standards			
Water Standard, 5 mg/mL	250 mL	Glass Bottle	CA1.09259.0250
Water Standard Oven, 1.0%	5 g	Glass Bottle	CA1.88054.0005
Water Standard Oil, 15–30 ppm	10 x 8 mL	Ampules	CA1.88055.0010
Water Standard, 0.01%, NIST	10 x 8 mL	Ampules	CA188050.0010
Water Standard, 0.1%, NIST	10 x 8 mL	Ampules	CA188051.0010
Water Standard, 0.01%, NIST	10 x 8 mL	Ampules	CA188052.0010

Ammonium Hydroxide, ARISTAR®. ACS Grade.

Clear and free from particulates.



Appearance.....	Colorless, free from susp. matter
Assay (NH ₃).....	28 - 30%
Carbon dioxide (CO ₂).....	0.002% max.
Chloride (Cl).....	0.5 ppm max.
Heavy metals (as Pb).....	0.5 ppm max.
Iron (Fe).....	0.2 ppm max.
Nitrate (NO ₃).....	2 ppm max.
Phosphate (PO ₄).....	2 ppm max.
Residue after ignition.....	0.002% max.
Substances reducing permanganate.....	To pass test
Total sulfur (as SO ₄).....	2 ppm max

Size	Packaging	Cat. No.
500 mL	Poly Bottle	CABDH3014P
2.5 L	Glass Bottle	CABDH30162.5LG
2.5 L	Poly-Coated Glass Bottle	CABDH3018PC
3.8 L	Poly Bottle	CABDH30203.8LP
194 L	Poly Drum	CABDH3022194L

Acetic Acid, ARISTAR®. ACS, USP, FCC Grade.

Clear, colorless liquid.



Acetic Anhydride.....	0.01% max.
Assay (CH ₃ COOH).....	99.7 - 100.5%
Chloride (Cl).....	1 ppm max.
Color (APHA).....	10 max.
Congealing temperature.....	15.6 C min.
Dilution test.....	To pass test
Heavy metals (as Pb).....	0.5 ppm max.
Identification acetate <191>.....	To pass test
Identification: FCC	To pass test
Iron (Fe).....	0.2 ppm max.
Oxidizable substances.....	To pass test
Residue after evaporation.....	0.001% max.
Substances reducing dichromate.....	To pass test
Substances reducing permanganate.....	To pass test
Sulfate.....	1 ppm max.
Titrate base.....	0.0004 meq/g max.

Size	Packaging	Cat. No.
500 mL	Poly Bottle	CABDH3092500ML
2.5 L	Glass Bottle	CABDH30942.5LG
2.5 L	Poly-Coated Glass Bottle	CABDH30962.5L
3.8 L	Poly Bottle	CABDH30983.8LP
19 L	Vent Flow Carboy	CABDH3100-19L
201 L		CABDH3102-201L

1-Butanol, ACS Grade.



Carbonyl compounds (as butyraldehyde).....	0.01% max.
Water.....	0.1% max.
Titrate acid.....	0.8 meq/g max.
Residue after evaporation.....	0.0005% max.
Color (APHA).....	10 max.
Butyl ether.....	0.2% max.
Assay by GC analysis.....	99.4% min.
Meets ACS specifications for general use.....	Pass

Size	Packaging	Cat. No.
19 L	Steel Can	CABDH1107-19L

Chloroform, Stabilized. ACS Grade.

Stabilized with amylene.



Contains amylene preservative.....	Pass
Meets ACS specifications for general use.....	Pass
Lead (Pb).....	0.05 ppm max.
Free chlorine (Cl).....	Pass
Assay by GC analysis.....	99.8% min.
Acid and chloride.....	Pass
Acetone and aldehyde.....	Pass
Residue after evaporation.....	0.001% max.
Color (APHA).....	10 max.

Size	Packaging	Cat. No.
19 L	Steel Can	CABDH1109-19L
204 L	Steel Drum	CABDH1109-204L
4 L	Glass Bottle	CABDH1109-4LG

Ether, Stabilized. ACS Grade. Stabilized



Alcohol (CH ₃ CH ₂ OH).....	To pass test (0.05%)
Assay ((CH ₃ CH ₂) ₂ O).....	99% min.
Carbonyl (as HCHO).....	0.001% max.
Color (APHA).....	10 max.
Peroxide (as H ₂ O ₂).....	1 ppm max.
Preservative (BHT) level.....	Record only
Residue after evaporation.....	0.001% max.
Titrate acid.....	0.0002 meq/g max.
Water (H ₂ O).....	0.03% max.

Size	Packaging	Cat. No.
1 L	Metal Can	CABDH3116-1L

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**Water (HPLC, Low TOC)
BDH ARISTAR® PLUS**

For LC, HPLC, and trace organic analysis.



Color (APHA)	5 max.
Residue after Evaporation	1 ppm max.
Fluorescence (as Quinine)	100 ppt max.
Resistivity (at time of bottling).....	18 MΩ min.
Total Organic Carbon	20 ppb max.
LC Gradient Suitability Test.....	Passes Test
Optical Absorbance at 200 nm.....	0.01 max.
Optical Absorbance at 254 nm.....	0.005 max.
Optical Absorbance at 300 nm.....	0.005 max.
Optical Absorbance at 400 nm.....	0.005 max.

Size	Packaging	Cat. No.
1 L	Amber Glass Bottle	CA87003-650
4 L	Amber Glass Bottle	CA87003-652

**Hydrochloric Acid,
ARISTAR®. ACS Grade.**

Free from particulates.



Ammonium (NH ₄).....	0.0003% max.
Appearance.....	Clear, colorless fuming liquid
Appearance (EP).....	To pass test
Arsenic (As).....	10 ppb max.
Assay (HCl).....	36.5-38.0%
Assay (HCl) Be'.....	22.7 deg Be' min.
Bromide or iodide	0.005% max.
Clarity of solution.....	Free from suspended matter/sediment
Color (APHA)	10 max.
Extractable organic substances	To pass test (0.0005% max.)
Free bromine or chlorine	To pass test (0.0001% max.)
Heavy metals (as Pb).....	0.0001% max.
Iron (Fe).....	0.00002% max
Reducing substances	To pass test
Residue after ignition	0.0005% max.
Specific gravity @ 60F	Record only (approx. 1.17-1.20)
Sulfate (SO ₄).....	0.0001% max.
Sulfite (SO ₃).....	0.0001% max.

Size	Packaging	Cat. No.
500 mL	Poly Bottle	CABDH3026P
2.5 L	Glass Bottle	CABDH30282.5LG
2.5 L	Poly-Coated Glass Bottle	CABDH3030PC
3.8 L	Poly Bottle	CABDH30323.8LP
19 L	Poly Carboy	CABDH303419L
54 L	Poly Drum	CABDH303654L
191 L	Poly Drum	CABDH3038191L

Fluoroboric Acid, Solution. ARISTAR®.

Clear, colorless liquid.



Appearance.....	Clear, colorless liquid
Assay (HBF ₄).....	48 - 50%
Boric acid (H ₃ BO ₃).....	2.0% max.
Iron (Fe).....	10 ppm max.
Sulfate (SO ₄).....	50 ppm max.

Size	Packaging	Cat. No.
500 mL	Poly Bottle	CABDH3024P

Hydrofluoric Acid, ARISTAR®. ACS Grade.



Arsenic (As).....	0.05 ppm max.
Assay (HF).....	48 - 51%
Chloride (Cl)	5 ppm max.
Copper (Cu).....	0.1 ppm max.
Fluosilicic acid (H ₂ SiF ₆).....	0.01% max.

Heavy metals (as Pb).....	0.5 ppm max.
Iron (Fe).....	1 ppm max.
Phosphate (PO ₄).....	1 ppm max.
Residue after ignition	5 ppm max.
Sulfate and sulfite (as SO ₄).....	5 ppm max.

Size	Packaging	Cat. No.
500 mL	Poly Bottle	CABDH3040P
3.8 L	Poly Bottle	CABDH30423.8LP

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o-Phosphoric Acid, ARISTAR®. FCC Grade.

Clear, colorless liquid.



Appearance.....	Clear, colorless liquid
Arsenic (As).....	3 mg/kg max.
Assay (H ₃ PO ₄).....	85.0 - 88.0% (W/W)
Cadmium (Cd).....	3 mg/kg max.
Fluoride (F).....	10 mg/kg max.
Identification (PO ₄).....	To pass test
Lead (Pb).....	3 mg/kg max.

Size	Packaging	Cat. No.
19 L	Vent Flow Carboy	CABDH306219L

o-Phosphoric Acid, ARISTAR®. ACS Grade.



Antimony (Sb).....	20 ppm max.
Arsenic (As).....	1 ppm max.
Assay (H ₃ PO ₄).....	85.0% min.
Calcium (Ca).....	20 ppm max.
Chloride (Cl).....	3 ppm max.
Color (APHA).....	10 max.
Heavy metals (as Pb).....	10 ppm max.
Insol. matter.....	10 ppm max.
Iron (Fe).....	30 ppm max.
Magnesium (Mg).....	20 ppm max.
Manganese (Mn).....	0.5 ppm max.
Nitrate (NO ₃).....	5 ppm max.
Potassium (K).....	50 ppm max.
Reducing substances.....	To pass test
Sodium (Na).....	250 ppm max.
Sulfate (SO ₄).....	30 ppm max.
Volatile acids (CH ₃ COOH).....	10 ppm max.

Size	Packaging	Cat. No.
19 L	Vent Flow Carboy	CABDH305019L
56 L	Poly Drum	CABDH305256L
2.5 L	Poly-Coated Glass Bottle	CABDH3104PC
3.8 L	Poly Bottle	CABDH3118-3.8

Nitric Acid, ARISTAR®. ACS Grade.

Colorless and free from particulates.



Appearance.....	Colorless, free from susp. matter
Arsenic (As).....	0.01 ppm max.
Assay (HNO ₃).....	68.0 - 70.0%
Chloride (Cl).....	0.5 ppm max.
Color (APHA).....	10 max.
Heavy metals (as Pb).....	0.2 ppm max.
Iron (Fe).....	0.2 ppm max.
Residue after ignition.....	5 ppm max.
Sulfate (SO ₄).....	1 ppm max.

Size	Packaging	Cat. No.
500 mL	Poly-Coated Glass Bottle	CABDH3044PC
2.5 L	Poly-Coated Glass Bottle	CABDH3046PC

Sulfuric Acid, ARISTAR®. ACS, FCC Grade.

Free from particulates.



Ammonium (NH ₄).....	2 ppm max.
Appearance.....	Clear, colorless solution
Arsenic (As).....	0.01 ppm max.
Assay (H ₂ SO ₄).....	95.0 - 98.0%
Chloride (as Cl).....	0.2 ppm max.
Color (APHA).....	10 max.
Free from suspended matter.....	To pass test
Heavy metals (as Pb).....	1 ppm max.
Identification: sulfate per FCC.....	To pass test
Iron (Fe).....	0.2 ppm max.
Mercury (Hg).....	5 ppb max.
Nitrate (NO ₃).....	0.5 ppm max.
Residue after ignition.....	5 ppm max.
Selenium (Se).....	0.002% max.
Substances reducing permanganate (ACS Method).....	To pass test

Size	Packaging	Cat. No.
500 mL	Poly Bottle	CABDH3068P
2.5 L	Poly-Coated Glass Bottle	CABDH3070PC
2.5 L	Glass Bottle	CABDH30722.5LG
3.8 L	Poly Bottle	CABDH30743.8LP
19 L	Poly Carboy	CABDH307619L
56 L	Poly Drum	CABDH307856L
111 L	Poly Drum	CABDH3088-111L

Ammonium Acetate, ACS

Meets reagent specifications for testing USP/NF monographs.

Hygroscopic solid



Assay.....	97.0% min.
pH of a 5% solution at 25.0°C.....	6.7 to 7.3
Insoluble matter.....	0.005% max
Residue after ignition.....	0.01% max
Chloride (Cl).....	5 ppm max
Nitrate (NO ₃).....	0.001% max
Sulfate (SO ₄).....	0.001% max
Heavy metals (as Pb).....	5 ppm max
Iron (Fe).....	5 ppm max

Size	Packaging	Cat. No.
500 g	Poly Bottle	CABDH9204-500G
2.5 kg	Poly Bottle	CABDH9204-2.5K

Ammonium Bicarbonate, Reagent

Meets reagent specifications for testing USP/NF monographs.

White crystalline



Assay.....	99 to 100.5% NH ₄ HCO ₃
Chloride (Cl).....	0.003% max
Lead (Pb).....	3 mg/Kg max
Non-volatile residue.....	0.05% max
Sulfur compounds (as SO ₄).....	0.007% max
Iron (Fe).....	5 mg/Kg max

Size	Packaging	Cat. No.
2.5 kg	Poly Bottle	CABDH9206-2.5K

Ammonium Sulfate, ACS

Meets reagent specifications for testing USP/NF monographs.
Colorless powder or solid



Assay	99% (NH ₄) ₂ SO ₄
pH of a 5% solution at 25.0°C	5.0 to 6.0
Insoluble matter	0.005% max
Residue after ignition	0.005% max
Chloride (Cl)	5 ppm max
Nitrate (NO ₃)	0.001% max
Phosphate (PO ₄)	5 ppm max
Heavy metals (as Pb)	5 ppm max
Iron (Fe)	5 ppm max

Size	Packaging	Cat. No.
500 g	Poly Bottle	CABDH9216-500G

Ammonium Chloride, ACS

Meets reagent specifications for testing USP/NF monographs.
White solid



Assay	99.5% NH ₄ Cl min
pH of a 5% solution at 25.0°C	4.5 to 5.5
Insoluble matter	0.005% max
Residue after ignition	0.01% max
Calcium (Ca)	0.001% max
Magnesium (Mg)	5 ppm max
Heavy metals (as Pb)	5 ppm max
Iron (Fe)	2 ppm max
Phosphate (PO ₄)	2 ppm max
Sulfate (SO ₄)	0.002% max

Size	Packaging	Cat. No.
2 kg	Poly Bottle	CABDH9208-2KG
500 g	Poly Bottle	CABDH9208-500G

Barium Chloride Dihydrate, ACS

Meets reagent specifications for testing USP/NF monographs.
White solid



Assay	99% BaCl ₂ 2H ₂ O min
Loss on drying	14.0 to 16.0%
pH of a 5% solution at 25.0°C	5.2 to 8.2
Insoluble matter	0.005% max
Oxidizing substances (as NO ₃)	0.005% max
Calcium (Ca)	0.05% max
Potassium (K)	0.0025% max
Sodium (Na)	0.005% max
Strontium (Sr)	0.1% max
Heavy metals (as Pb)	5 ppm max
Iron (Fe)	2 ppm max

Size	Packaging	Cat. No.
500 g	Poly Bottle	CABDH9220-500G

Ammonium Molybdate Tetrahydrate, ACS

Meets reagent specifications for testing USP/NF monographs.
Colorless or white solid; sometimes slight green/yellow tint



Assay (as MoO ₃)	81.0 to 83.0%
Insoluble matter	0.005% max
Chloride (Cl)	0.002% max
Nitrate (NO ₃)	Passes test
Arsenate, phosphate, and silicate (as SiO ₂)	0.001% max
Phosphate (PO ₄)	5 ppm max
Sulfate (SO ₄)	0.02% max
Heavy Metals (as Pb)	0.001% max
Magnesium (Mg)	0.005% max
Potassium (K)	0.01% max
Sodium (Na)	0.01% max

Size	Packaging	Cat. No.
500 g	Poly Bottle	CABDH9210-500G

Boric Acid, ACS

Meets reagent specifications for testing USP/NF monographs.
Colorless or white solid



Assay	99.5% H ₃ BO ₃ min
Insoluble in methanol	0.005% max
Non-volatile with methanol	0.05% max
Chloride (Cl)	0.001% max
Phosphate (PO ₄)	0.001% max
Sulfate (SO ₄)	0.01% max
Heavy Metals (as Pb)	0.001% max
Iron (Fe)	0.001% max
Calcium (Ca)	0.005% max

Size	Packaging	Cat. No.
500 g	Poly Bottle	CABDH9222-500G
2.5 kg	Poly Bottle	CABDH9222-2.5K

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Ammonium Persulfate, ACS

Meets reagent specifications for testing USP/NF monographs.

Colorless or white solid

Assay	98% (NH ₄) ₂ S ₂ O ₈ min
Insoluble matter	0.005% max
Residue after ignition	0.05% max
Titration free acid	0.04 meq/g max
Chloride and chlorate (as Cl)	0.001% max
Heavy metals (as Pb)	0.005% max
Iron (Fe)	0.001% max
Manganese (Mn)	0.5 ppm max

Size	Packaging	Cat. No.
500 g	Poly Bottle	CABDH9214-500G



Dextrose, Anhydrous, ACS

Meets reagent specifications for testing USP/NF monographs.

White solid

Specific rotation [α] _D ²⁵ °C	+52.5° to +53.0°
Insoluble matter	0.005% max
Loss on drying	0.2% max
Residue after ignition	0.02% max
Titration acid	0.002 meq/g
Chloride (Cl)	0.01% max
Sulfate and sulfite (SO ₄)	0.005% max
Starch	Passes test
Heavy Metals (as Pb)	5 ppm max
Iron (Fe)	5 ppm max

Size	Packaging	Cat. No.
500 g	Poly Bottle	CABDH9230-500G



Calcium Chloride, Dihydrate, ACS

Meets reagent specifications for testing USP/NF monographs.

Colorless or white hygroscopic solid

Assay	99 to 105.0% CaCl ₂ 2H ₂ O
pH of a solution at 25.0°C	4.5 to 8.5
Insoluble matter	0.01% max
Oxidizing substances (as NO ₃)	0.003% max
Sulfate (SO ₄)	0.01% max
Ammonium (NH ₄)	0.005% max
Barium (Ba)	0.005% max
Heavy metals (as Pb)	5 ppm max
Iron (Fe)	0.001% max
Magnesium (Mg)	0.005% max
Potassium (K)	0.01% max
Sodium (Na)	0.02% max
Strontium (Sr)	0.1% max

Size	Packaging	Cat. No.
1 kg	Poly Bottle	CABDH9224-1KG



Citric Acid, Monohydrate, ACS

Colorless or white solid

Assay	99 to 102% C ₆ H ₈ O ₇ · H ₂ O
Insoluble matter	0.005% max
Residue after ignition	0.02% max
Chloride (Cl)	0.001% max
Oxalate (C ₂ O ₄)	Passes test
Phosphate (PO ₄)	0.001% max
Sulfate (SO ₄)	0.002% max
Iron (Fe)	3 ppm max
Lead (Pb)	2 ppm max
Substances carbonizable by hot sulfuric acid	Passes test

Size	Packaging	Cat. No.
500 g	Poly Bottle	CABDH9228-500G



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EDTA, ACS

White solid.

White solid.

Assay	99.4 to 100.6% $C_{10}H_{16}N_2O_8$
Insoluble in dilute ammonium hydroxide	0.005% max
Residue after ignition	0.2% max
Nitrilotriacetic acid [(HOCOCH ₂) ₃ N]	0.1% max
Calcium (Ca)	0.001% max
Magnesium (Mg)	5 ppm max
Heavy metals (as Pb)	0.001% max
Iron (Fe)	0.005% max

Size	Packaging	Cat. No.
500 g	Poly Bottle	CABDH9232-500G



Ascorbic Acid, ACS

White solid



Assay (as-is basis)	99% $C_6H_8O_6$ min
Specific rotation $[\alpha]_{D_{25}}^{\circ}C$	+21.0° +/- 0.5°
Residue after ignition	0.1% max
Heavy metals (as Pb)	0.002% max
Iron (Fe)	0.001% max

Size	Packaging	Cat. No.
100 g	Poly Bottle	CABDH9242-100G
250 g	Poly Bottle	CABDH9242-250G

Ferric Chloride Hexahydrate, ACS

Meets reagent specifications for testing USP/NF monographs.

Brownish-yellow deliquescent solid

Assay	97.0 to 102% $FeCl_3 \cdot 6H_2O$
Insoluble matter	0.01% max
Nitrate (NO ₃)	0.01% max
Sulfate (SO ₄)	0.01% max
Phosphorous compounds (as PO ₄)	0.01% max
Calcium (Ca)	0.01% max
Copper (Cu)	0.003% max
Magnesium (Mg)	0.005% max
Potassium (K)	0.005% max
Sodium (Na)	0.05% max
Zinc (Zn)	0.003% max
Ferrous iron (Fe++)	0.002% max

Size	Packaging	Cat. No.
500 g	Glass Bottle	CABDH9234-500G



Hydroxylamine Hydrochloride, ACS

Meets reagent specifications for testing USP/NF monographs.

Colorless, hygroscopic solid

Assay	96.0% $NH_2OH \cdot HCl$
Clarity of alcohol solution	Passes test
Residue after ignition	0.05% max
Titration free acid	0.25 meq/g max
Ammonium (NH ₄)	Passes test
Sulfur compounds (as SO ₄)	0.005% max
Heavy metals (as Pb)	5 ppm max
Iron (Fe)	5 ppm max

Size	Packaging	Cat. No.
1 kg	Poly Bottle	CABDH9236-1KG
500 g	Poly Bottle	CABDH9236-500G



Magnesium Chloride, ACS

Meets reagent specifications for testing USP/NF monographs.

Colorless, deliquescent solid

Assay	99 to 102% $MgCl_2 \cdot 6H_2O$
Insoluble matter	0.005% max
Nitrate (NO ₃)	0.001% max
Phosphate (PO ₄)	5 ppm max
Sulfate (SO ₄)	0.002% max
Ammonium (NH ₄)	0.002% max
Barium (Ba)	0.005% max
Calcium (Ca)	0.01% max
Manganese (Mn)	5 ppm max
Potassium (K)	0.005% max
Sodium (Na)	0.005% max
Strontium (Sr)	0.005% max
Heavy metals (as Pb)	5 ppm max
Iron (Fe)	5 ppm max

Size	Packaging	Cat. No.
500 g	Poly Bottle	CABDH9244-500G
2.5 kg	Poly Bottle	CABDH9244-2.5K



Magnesium Sulfate, Anhydrous, Reagent Grade, BDH

White powder

Assay	99% min
pH of a 5% solution at 25.0°C	5.0 to 9.2
Loss on drying	2.0% max
Chloride (Cl)	0.01% max
Iron (Fe)	20 ppm max
Selenium (Se)	30 ppm max
Heavy metals	10 ppm max
0.01% max	

Size	Packaging	Cat. No.
500 g	Glass Bottle	CABDH9246-500G



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Mannitol, ACS

White solid
White solid



Specific Rotation $[\alpha]_{D_{25}}^{\circ}C$	+23.3° to + 24.3°
Reducing sugars	Passes test
Insoluble matter	0.01% max
Loss on drying	0.05% max
Residue after ignition	0.01% max
Titration acid	0.0008 meq/g max
Heavy metals (as Pb)	5 ppm max

Size	Packaging	Cat. No.
500 g	Poly Bottle	CABDH9248-500G

Potassium Acetate, ACS

Meets reagent specifications for testing USP/NF monographs.
Colorless or white solid



Assay	99% CH_3COOK
pH of a 5% solution at 25.0°C.....	6.5 to 9.0
Insoluble matter	0.005% max
Chloride (Cl)	0.003% max
Phosphate (PO_4).....	0.001% max
Sulfate (SO_4).....	0.002% max
Heavy Metals (as Pb)	5 ppm max
Iron (Fe).....	5 ppm max
Calcium (Ca).....	0.005% max
Magnesium (Mg).....	0.002% max
Sodium (Na).....	0.03% max

Size	Packaging	Cat. No.
500 g	Poly Bottle	CABDH9254-500G

Potassium Carbonate, ACS

Meets reagent specifications for testing USP/NF monographs.
White, hygroscopic solid



Assay	99% K_2CO_3 min
Insoluble matter	0.01% max
Chloride (Cl)	0.003% max
Phosphate (PO_4).....	0.001% max
Silica (SiO_2)	0.005% max
Sulfur compounds (as SO_4)	0.004% max
Heavy metals (as Pb)	5 ppm max
Iron (Fe).....	5 ppm max
Calcium (Ca).....	0.005% max
Magnesium (Mg).....	0.002% max
Sodium (Na).....	0.02% max

Size	Packaging	Cat. No.
500 g	Poly Bottle	CABDH9256-500G

Potassium Chloride, ACS

Meets reagent specifications for testing USP/NF monographs.
Colorless or white solid



Assay	99 to 100.5% KCl
pH of a 5% solution at 25.0°C.....	5.4 to 8.6
Insoluble matter	0.005% max
Iodide (I).....	0.002% max
Bromide (Br).....	0.01% max
Chlorate and Nitrate (as NO_3)	0.003% max
Phosphate (PO_4).....	5 ppm max
Sulfate (SO_4).....	0.001% max
Barium (Ba).....	Passes test
Heavy metals (as Pb)	5 ppm max
Iron (Fe).....	3 ppm max
Calcium (Ca).....	0.002% max
Magnesium (Mg).....	0.001% max
Sodium (Na).....	0.005% max

Size	Packaging	Cat. No.
2.5 kg	Poly Bottle	CABDH9258-2.5K
500 g	Poly Bottle	CABDH9258-500G

Potassium Hydrogen Phthalate, ACS

White solid
White solid



Assay	99.95 to 100.05% $C_8H_5O_4K$
pH of a 0.05M solution at 25.0 +/- 0.2°C	4.00 to 4.02
Insoluble matter	0.005% max
Chloride compounds (as Cl).....	0.003% max
Sulfur compounds (as S).....	0.002% max
Heavy metals (as Pb)	5 ppm max
Iron (Fe).....	5 ppm max
Sodium (Na).....	0.005% max

Size	Packaging	Cat. No.
125 g	Poly Bottle	CABDH9260-125G
500 g	Poly Bottle	CABDH9260-500G

Potassium Hydroxide, ACS

Meets reagent specifications for testing USP/NF monographs.
White, deliquescent solid



Assay	85.0% KOH min and 2.0% K_2CO_3
Nitrogen compounds (as N).....	0.001% max
Chloride (Cl)	0.01% max
Phosphate (PO_4).....	5 ppm max
Sulfate (SO_4).....	0.003% max
Heavy metals (as Ag).....	0.001% max
Iron (Fe).....	0.001% max
Nickel (Ni).....	0.001% max
Calcium (Ca).....	0.005% max
Magnesium (Mg).....	0.002% max
Sodium (Na).....	0.05% max

Size	Packaging	Cat. No.
2.5 kg	Poly Bottle	CABDH9262-2.5K
500 g	Poly Bottle	CABDH9262-500G

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Potassium Iodide, ACS

Meets reagent specifications for testing USP/NF monographs.

Colorless or white solid



Assay	99% KI min
pH of a 5% solution at 25°C.....	6.0 to 9.2
Insoluble matter	0.005% max
Loss on drying	0.2% max
Chloride and bromide (as Cl)	0.01% max
Iodate (IO ₃)	3 ppm max
Phosphate (PO ₄).....	0.001% max
Sulfate (SO ₄).....	0.005% max
Barium (Ba).....	0.002% max
Heavy Metals (as Pb).....	5 ppm max
Iron (Fe).....	3 ppm max
Calcium (Ca).....	0.002% max
Magnesium (Mg)	0.001% max
Sodium (Na).....	0.005% max

Size	Packaging	Cat. No.
125 g	Poly Bottle	CABDH9264-125G
2.5 kg	Poly Bottle	CABDH9264-2.5K
500 g	Poly Bottle	CABDH9264-500G

Potassium Phosphate Dibasic, ACS

White solid

White solid



Assay	98% K ₂ HPO ₄ min
pH of a 5% solution at 25.0°C.....	8.5 to 9.6
Insoluble Matter	0.01% max
Loss on Drying.....	1.0% max
Chloride (Cl)	0.003% max
Nitrogen compounds (as N).....	0.001% max
Sulfate (SO ₄).....	0.005% max
Heavy Metals (as Pb).....	5 ppm max
Iron (Fe).....	0.001% max
Sodium (Na).....	0.05% max

Size	Packaging	Cat. No.
2.5 kg	Poly Bottle	CABDH9266-2.5K
500 g	Poly Bottle	CABDH9266-500G

Potassium Phosphate Monobasic, ACS

Meets reagent specifications for testing USP/NF monographs.

White or colorless solid



Assay	99% KH ₂ PO ₄ min
pH of a 5% solution at 25.0°C.....	4.1 to 4.5
Insoluble matter	0.01% max
Loss on drying	0.2% max
Chloride (Cl)	0.001% max
Sulfate (SO ₄).....	0.003% max
Heavy metals (as Pb).....	0.001% max
Iron (Fe).....	0.002% max
Sodium (Na).....	0.005% max

Size	Packaging	Cat. No.
2.5 kg	Poly Bottle	CABDH92682.5K
500 g	Poly Bottle	CABDH9268500G

Silver Nitrate, ACS

Colorless or white solid



Assay	99% AgNO ₃ min
Clarity of solution.....	Passes test
Chloride (Cl)	5 ppm max
Free acid.....	Passes test
Substances not precipitated by hydrochloric acid.....	0.01% max
Sulfate (SO ₄).....	0.002% max
Copper (Cu).....	2 ppm max
Iron (Fe).....	2 ppm max
Lead (Pb)	0.001% max

Size	Packaging	Cat. No.
125 g	Glass Bottle	CABDH9276-125G
500 g	Glass Bottle	CABDH9276-500G

Sodium Acetate Trihydrate, ACS

Meets reagent specifications for testing USP/NF monographs.

Colorless or white solid



Assay	99 to 101% NaC ₂ H ₃ O ₂ · 3H ₂ O
pH of a solution at 25.0°C.....	7.5 to 9.2
Substances reducing permanganate.....	Passes test
Insoluble matter	0.005% max
Chloride (Cl)	0.001% max
Phosphate (PO ₄).....	5 ppm max
Sulfate (SO ₄).....	0.002% max
Heavy metals (as Pb).....	5 ppm max
Iron (Fe).....	5 ppm max
Calcium (Ca).....	0.005% max
Magnesium (Mg)	0.002% max
Potassium (K)	0.005% max

Size	Packaging	Cat. No.
500 g	Poly Bottle	CABDH9278-500G

Sodium Bicarbonate, ACS

Meets reagent specifications for testing USP/NF monographs.

White solid



Assay	99.7 to 100.3% NaHCO ₃
Insoluble matter	0.015% max
Chloride (Cl)	0.003% max
Phosphate (PO ₄).....	0.001% max
Sulfur compounds (as SO ₄)	0.003% max
Ammonium (NH ₄).....	5 ppm max
Heavy metals (as Pb).....	5 ppm max
Iron (Fe).....	0.001% max
Calcium (Ca).....	0.02% max
Magnesium (Mg)	0.005% max
Potassium (K)	0.005% max

Size	Packaging	Cat. No.
2.5 kg	Poly Bottle	CABDH9280-2.5K
500 g	Poly Bottle	CABDH9280-500G

Sodium Carbonate Anhydrous, ACS

Meets reagent specifications for testing USP/NF monographs.

White solid

Assay (dried

basis)	99.5% Na ₂ CO ₃ min
Insoluble matter	0.01% max
Loss on heating at 285°C	1.0% max
Chloride (Cl)	0.001% max
Phosphate (PO ₄)	0.001% max
Silica (SiO ₂)	5e-005
Sulfur compounds (as SO ₄)	0.003% max
Heavy metals (as Pb)	5 ppm max
Iron (Fe)	5 ppm max
Calcium (Ca)	0.03% max
Magnesium (Mg)	0.005% max
Potassium (K)	0.005% max

Size	Packaging	Cat. No.
2.5 kg	Poly Bottle	CABDH9284-2.5K
500 g	Poly Bottle	CABDH9284-500G



Sodium Fluoride, ACS

Meets reagent specifications for testing USP/NF monographs.

White solid

Assay	99% NaF min
Insoluble matter	0.02% max
Loss on drying	0.3% max
Chloride (as Cl)	0.005% max
Titrate acid	0.03 meq/g max
Titrate base	0.01 meq/g max
Sodium fluosilicate (Na ₂ SiF ₆)	0.1% max
Sulfate (SO ₄)	0.03% max
Sulfite (SO ₃)	0.005% max
Heavy Metals (as Pb)	0.003% max
Iron (Fe)	0.003% max
Potassium (K)	0.02% max

Size	Packaging	Cat. No.
500 g	Poly Bottle	CABDH9290-500G



Sodium Chloride, ACS

Meets reagent specifications for testing USP/NF monographs.

White solid

Assay	99% NaCl min
pH of a solution at 25.0°C	5.0 to 9.0
Insoluble matter	0.005% max
Iodide (I)	0.002% max
Bromide (Br)	0.01% max
Chlorate and nitrate (as NO ₃)	0.003% max
Phosphate (PO ₄)	5 ppm max
Sulfate (SO ₄)	0.004% max
Barium (Ba)	Passes test
Heavy metals (as Pb)	5 ppm max
Iron (Fe)	2 ppm max
Calcium (Ca)	0.002% max
Magnesium (Mg)	0.001% max
Potassium (K)	0.005% max

Size	Packaging	Cat. No.
2.5 kg	Poly Bottle	CABDH9286-2.5K
500 g	Poly Bottle	CABDH9286-500G



Sodium Hydroxide, ACS

Meets reagent specifications for testing USP/NF monographs.

Beads.

Assay	97% min
Sodium Carbonate (Na ₂ CO ₃)	1.0% max
Sulfate (SO ₄)	0.003% max
Chloride (Cl)	0.005% max
Nitrogen compounds (as N)	0.001% max
Phosphate (PO ₄)	0.001% max
Heavy metals (as Ag)	0.002% max
Iron (Fe)	0.001% max
Nickel (Ni)	0.001% max
Mercury (Hg)	0.1 ppm max
Calcium (Ca)	0.005% max
Magnesium (Mg)	0.002% max
Potassium (K)	0.02% max

Size	Packaging	Cat. No.
500 g	Poly Bottle	CABDH9292-500G
2.5 kg	Poly Bottle	CABDH9292-2.5K



Sodium Citrate Dihydrate, ACS

Colorless or white solid

Assay	99% Na ₃ C ₆ H ₅ O ₇ · 2H ₂ O
pH of a solution at 25.0°C	7.0 to 9.0
Insoluble matter	0.005% max
Chloride (Cl)	0.003% max
Sulfate (SO ₄)	0.005% max
Ammonia (NH ₃)	0.003% max
Calcium (Ca)	0.005% max
Heavy metals (as Pb)	5 ppm max
Iron (Fe)	5 ppm max

Size	Packaging	Cat. No.
2.5 kg	Poly Bottle	CABDH9288-2.5K
500 g	Poly Bottle	CABDH9288-500G



Sodium Iodide, ACS

White solid; may become brown on exposure to air

Assay	99.5% NaI min
pH of a 5% solution at 25.0°C	6.0 to 9.0
Insoluble matter	0.01% max
Chloride and Bromide (as Cl)	0.01% max
Iodate (as IO ₃)	3 ppm max
Phosphate (PO ₄)	0.001% max
Sulfate (SO ₄)	0.005% max
Barium (Ba)	0.002% max
Heavy Metals (as Pb)	5 ppm max
Iron (Fe)	5 ppm max
Calcium (Ca)	0.002% max
Magnesium (Mg)	0.001% max
Potassium (K)	0.01% max

Size	Packaging	Cat. No.
2.5 kg	Poly Bottle	CABDH9294-2.5K
500 g	Poly Bottle	CABDH9294-500G



Sodium Phosphate Dibasic, ACS

Meets reagent specifications for testing USP/NF monographs.

Crystals.

Assay	98 to 102% Na ₂ HPO ₄ ·7H ₂ O
pH of a 5% solution at 25.0°C	8.7 to 9.3
Insoluble matter	0.005% max
Chloride (Cl)	0.001% max
Sulfate (SO ₄)	0.005% max
Heavy metals (as Pb)	0.001% max
Sulfate (SO ₄)	0.001% max

Size	Packaging	Cat. No.
2.5 kg	Poly Bottle	CABDH9296-2.5K
500 g	Poly Bottle	CABDH9296-500G



Sodium Sulfate, Anhydrous, ACS

Meets reagent specifications for testing USP/NF monographs.

White solid

Assay	99% Na ₂ SO ₄ min
pH of a solution at 25.0°C	5.2 to 9.2
Insoluble matter	0.01% max
Loss on ignition	0.5% max
Chloride (Cl)	0.001% max
Nitrogen compounds (as N)	5 ppm max
Phosphate (PO ₄)	0.001% max
Heavy metals (as Pb)	5 ppm max
Iron (Fe)	0.001% max
Calcium (Ca)	0.01% max
Magnesium (Mg)	0.005% max
Potassium (K)	0.01% max

Size	Packaging	Cat. No.
2.5 kg	Poly Bottle	CABDH9302-2.5K
500 g	Poly Bottle	CABDH9302-500G



Sodium Phosphate Monobasic, Monohydrate, ACS

Meets reagent specifications for testing USP/NF monographs.

Colorless or white solid

Assay	98 to 102% NaH ₂ PO ₄ ·H ₂ O
pH of a solution at 25.0°C	4.1 to 4.5
Insoluble matter	0.01% max
Chloride (Cl)	5 ppm max
Sulfate (SO ₄)	0.003% max
Calcium (Ca)	0.005% max
Potassium (K)	0.01% max
Heavy metals (as Pb)	0.001% max
Iron (Fe)	0.001% max

Size	Packaging	Cat. No.
2.5 kg	Poly Bottle	CABDH9298-2.5K
500 g	Poly Bottle	CABDH9298-500G



Succinic Acid, ACS

Meets reagent specifications for testing USP/NF monographs.

Colorless solid

Assay	99% HOOCCH ₂ CH ₂ COOH min
Melting point	185.0 to 191.0°C
Insoluble matter	0.01% max
Residue after ignition	0.02% max
Chloride (Cl)	0.001% max
Phosphate (PO ₄)	0.001% max
Sulfate (SO ₄)	0.003% max
Nitrogen compounds (as N)	0.001% max
Heavy metals (as Pb)	5 ppm max
Iron (Fe)	5 ppm max

Size	Packaging	Cat. No.
1 kg	Glass Bottle	CABDH9306-1KG



Sodium Phosphate Tribasic Dodecahydrate, ACS

Meets reagent specifications for testing USP/NF monographs.

Colorless or white solid

Assay	98 to 102% Na ₃ PO ₄ ·12H ₂ O
Excess alkali (as NaOH)	2.5% max
Insoluble matter	0.01% max
Chloride (Cl)	0.001% max
Sulfate (SO ₄)	0.01% max
Heavy metals (as Pb)	0.001% max
Iron (Fe)	0.001% max

Size	Packaging	Cat. No.
500 g	Poly Bottle	CABDH9300-500G



Sucrose, ACS

White solid

Specific rotation [α] D ₂₀ °C	+66.3° to +66.8°
Insoluble matter	0.005% max
Loss on drying	0.03% max
Residue after ignition	0.01% max
Titrate acid	0.0008 meq/g max
Chloride (Cl)	0.005% max
Sulfate and sulfite (as SO ₄)	0.005% max
Heavy metals (as Pb)	5 ppm max
Iron (Fe)	5 ppm max
Invert sugar	0.05% max

Size	Packaging	Cat. No.
2.5 kg	Poly Bottle	CABDH9308-2.5K
500 g	Poly Bottle	CABDH9308-500G



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Zinc Chloride, ACS

White free-flowing granules.



Assay	97% ZnCl ₂ min
Oxychloride	Passes test
Insoluble matter	0.005% max
Nitrate (NO ₂)	0.003% max
Sulfate (SO ₄)	0.01% max
Ammonium (NH ₄)	0.005% max
Calcium (Ca)	0.06% max
Iron (Fe)	0.001% max
Lead (Pb)	0.005% max
Magnesium (Mg)	0.01% max
Potassium (K)	0.02% max
Sodium (Na)	0.05% max

Size	Packaging	Cat. No.
500 g	Poly Bottle	CABDH9314-500G

Copper Sulfate Pentahydrate, ACS

Meets reagent specifications for testing USP/NF monographs.

Blue solid



Identification (Copper)	Conforms
Identification (Sulfate)	Conforms
Loss on drying	33.0 to 36.5%
Limit of sodium (Na)	0.02 % max
Limit of potassium (K)	0.01 % max
Limit of calcium (Ca)	0.005 % max
Limit of iron (Fe)	0.003 % max
Limit of nickel (Ni)	0.005 % max
Assay (dried)	98.5 to 100.5 % CuSO ₄

Size	Packaging	Cat. No.
500 g	Poly Bottle	CABDH9312-500G
2.5 kg	Poly Bottle	CABDH9312-2.5K

Hydrochloric Acid, Solution 0.10N

Meets AOAC 936.15 standard and ASTM E200-91 standard.



Appearance/color	Clear
N.I.S.T. traceable	Yes
Normality	0.0995-0.1005
Shelf-life	2 years

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7200-1
4 L	Poly Bottle	CABDH7200-4

Hydrochloric Acid, Solution 6.0N BDH®

Made with high purity acid and deionized water. Suitable as a titrant.



Appearance/	
color	Clear
APHA color	0 - 10
Normality	5.950-6.050
Shelf-life	2 years

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7204-1
4 L	Poly Bottle	CABDH7204-4

Iodine, Solution 0.025N BDH®

Made with iodine crystals, potassium iodide and deionized water.



Normality	0.0245 - 0.0255
Appearance/color	Dark brown liquid

Size	Packaging	Cat. No.
1 L	Amber Glass Bottle	CABDH7206-1

Iodine, Solution 0.1N BDH®

Made with iodine crystals, potassium iodide and deionized water.



Normality	0.0995 - 0.1005
Appearance/color	Dark brown liquid

Size	Packaging	Cat. No.
1 L	Amber Glass Bottle	CABDH7207-1
4 L	Amber Glass Bottle	CABDH7207-4

Nitric Acid, Solution 0.1N BDH®

Made with high purity acid and deionized water. Suitable as a titrant.



Appearance/color	Clear
N.I.S.T. traceable	Yes
Normality	0.0995-0.1005
Shelf-life	18 months

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7208-1

Nitric Acid Solution 1.00N BDH®

Made with high purity acid and deionized water. Suitable as a titrant.



Appearance/color	Clear
N.I.S.T. traceable	Yes
Normality	0.9995-1.0005
Shelf-life	18 months

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7209-1
4 L	Poly bottle	CABDH7209-5

**Perchloric Acid, Solution 0.1N
in Acetic Acid BDH®**



VWR ANALYTICAL

Made with high purity acetic acid, suitable as a titrant.

Appearance/color Clear
N.I.S.T. traceable Yes
Normality 0.0995-0.1005
Shelf-life 1 year

Size	Packaging	Cat. No.
1 L	Amber Glass Bottle	CABDH7210-1
500 mL	Amber Glass Bottle	CABDH7210-2
4 L	Amber Glass Bottle	CABDH7210-4

Potassium Hydroxide, Solution 0.1N BDH®



VWR ANALYTICAL

Made with deionized water. Suitable as a titrant.

Appearance/color Clear
N.I.S.T. traceable Yes
Normality 0.0995-0.1005
Shelf-life 18 months

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7211-1

Potassium Hydroxide, Solution 1.0N BDH®



VWR ANALYTICAL

Made with deionized water. Suitable as a titrant.

Appearance/color Clear
N.I.S.T. traceable Yes
Normality 0.9995-1.0005
Shelf-life 2 years

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7212-1

**Potassium Permanganate,
Solution 0.1N BDH®**



VWR ANALYTICAL

Appearance/color Purple liquid
N.I.S.T. traceable Yes
Normality 0.0995-0.1005
Shelf-life 1 year

Size	Packaging	Cat. No.
1 L	Amber Glass Bottle	CABDH7213-1
4 L	Amber Glass Bottle	CABDH7213-4

Silver Nitrate, Solution 0.1N BDH®



VWR ANALYTICAL

Suitable as a titrant. Made with deionized water.

Appearance/color Clear
N.I.S.T. traceable Yes
Normality 0.0995-0.1005
Shelf-life 2 years

Size	Packaging	Cat. No.
1 L	Amber Glass Bottle	CABDH7214-1
500 mL	Amber Glass Bottle	CABDH7214-2
4 L	Amber Glass Bottle	CABDH7214-4

Sodium Hydroxide, Solution 20% (w/v) BDH®



VWR ANALYTICAL

AOAC and APHA.

Appearance/color Clear
N.I.S.T. traceable Yes
NaOH 19.5-20% (w/v)
Shelf-life 1 year

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7216-1
4 L	Poly Bottle	CABDH7216-4

Sodium Hydroxide, Solution 0.02N BDH®



VWR ANALYTICAL

AOAC, APHA, and ASTM for acidity.

Appearance/color Clear
N.I.S.T. traceable Yes
Normality 0.0195-0.0205
Shelf-life 1 year

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7217-1

Sodium Hydroxide, Solution 0.05N BDH®



VWR ANALYTICAL

AOAC, APHA, and ASTM.

Appearance/color Clear
N.I.S.T. traceable Yes
Normality 0.0495-0.0505
Shelf-life 1 year

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7218-1

Sodium Hydroxide, Solution 0.1N BDH®



VWR ANALYTICAL

AOAC, APHA, and ASTM.

Appearance/color Clear
N.I.S.T. traceable Yes
Normality 0.0995-0.1005
Shelf-life 2 years

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7219-1
4 L	Poly Bottle	CABDH7219-4
4 L	Cubitainer	CABDH7219-5

Sodium Hydroxide, Solution 0.2N BDH®



VWR ANALYTICAL

AOAC, APHA, and ASTM.

Appearance/color Clear
N.I.S.T. traceable Yes
Normality 0.1995-0.2005
Shelf-life 18 months

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7220-1

Sodium Hydroxide, Solution 0.5N BDH®

AOAC, APHA, and ASTM.



Appearance/color Clear
 N.I.S.T. traceable Yes
 Normality 0.4995-0.5005
 Shelf-life 2 years

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7221-1
4 L	Poly Bottle	CABDH7221-4

Sodium Hydroxide, Solution 1.0N BDH®

Meets APHA standard, AOAC 936.16 standard, and ASTM E200-91 standard.



Appearance/color Clear
 N.I.S.T. traceable Yes
 Normality 0.9995-1.0005
 Shelf-life 2 years

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7222-1
4 L	Poly Bottle	CABDH7222-4

Sodium Hydroxide, Solution 2.0N BDH®

AOAC and APHA.



Appearance/color Clear
 N.I.S.T. traceable Yes
 Normality 1.999-2.001
 Shelf-life 2 years

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7223-1
4 L	Poly Bottle	CABDH7223-4

Sodium Hydroxide, Solution 2.5N BDH®

AOAC and APHA.



Appearance/color Clear
 N.I.S.T. traceable Yes
 Normality 2.498-2.502
 Shelf-life 1 year

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7224-1

Sodium Hydroxide, Solution 5.000N BDH®

Made with deionized water. Suitable as a titrant.



Appearance/color Clear
 N.I.S.T. traceable Yes
 Normality 4.99-5.01
 Shelf-life 2 years

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7225-1
4 L	Poly Bottle	CABDH7225-4

Sodium Hydroxide, Solution 6.0N BDH®

APHA.



Appearance/color Clear
 N.I.S.T. traceable Yes
 Normality 5.97-6.03
 Shelf-life 2 years

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7226-1

Sodium Thiosulfate, Solution 0.025N BDH®

Made with deionized water.



Appearance/color Clear
 N.I.S.T. traceable Yes
 Normality 0.0245-0.0255
 Shelf-life 6 months

Size	Cat. No.
1 L	CABDH7227-1
4 L	CABDH7227-4

Sodium Thiosulfate, Solution 0.10N BDH®

Suitable as a titrant. Made with deionized water.



Appearance/color Clear
 N.I.S.T. traceable Yes
 Normality 0.0995-0.1005
 Shelf-life 6 months
 pH 6.0 Min.

Size	Packaging	Cat. No.
4 L	Poly Bottle	CABDH7228-4

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Sulfuric Acid, Solution 0.02N BDH®

Made with high purity acid and deionized water. Suitable as a titrant.



Appearance/color Clear
N.I.S.T. traceable Yes
Normality..... 0.0195-0.0205
Shelf-life 1 year

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7229-1
4 L	Poly Bottle	CABDH7229-4

Sulfuric Acid, Solution 0.1N BDH®

Meets ASTM E200-91 and AOAC 890-01 standards.



Appearance/color Clear
N.I.S.T. traceable Yes
Normality..... 0.0995-0.1005
Shelf-life 2 years

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7230-1
4 L	Poly Bottle	CABDH7230-4

Sulfuric Acid, Solution 1.0N BDH®

APHA.



Appearance/color Clear
N.I.S.T. traceable Yes
Normality..... 0.9995-1.0005
Shelf-life 2 years

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7232-1
4 L	Poly Bottle	CABDH7232-4

Sulfuric Acid, Solution 0.5N BDH®

APHA and ASTM.



Appearance/color Clear
N.I.S.T. traceable Yes
Normality..... 0.4995-0.5005
Shelf-life 2 years

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7233-1

Acetic Acid, Solution 1.0000N +/- 0.0005N BDH®

Standardized at 25°C against chemicals whose certification is traceable to NIST.



Appearance/color Clear
N.I.S.T. traceable Yes
Normality..... 0.9991-1.0009
Shelf-life 1 year

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7236-1

Hydrochloric Acid, Solution 0.01N BDH®

Made with high purity acid and deionized water. Suitable as a titrant.



Appearance/color Clear
N.I.S.T. traceable Yes
Normality..... 0.0095-0.0105
Shelf-life 1 year

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7237-1

Barium Chloride, Solution 10% (w/v) BDH®

Made with deionized water.



Appearance/color Clear
Shelf-life 1 year

Size	Packaging	Cat. No.
1 L	Poly bottle	CABDH7238-1

o-Tolidine, Solution 0.01% (w/v) BDH®

Made with deionized water, hydrochloric acid and o-tolidine.



Prepared to formulation on file Yes
Appearance/color Pass

Size	Packaging	Cat. No.
1 L	Glass Bottle	CABDH7241-1

Potassium Chloride, Saturated Solution 4.0M BDH®

For refilling calomel reference electrodes. Ionic strength adjuster for calcium ion selective electrode.



Size	Packaging	Cat. No.
1 L	Poly bottle	CABDH7242-1

Potassium Hydroxide, Solution Technical Grade 45% (w/w) BDH®



Shelf-life 2 years
KOH 43-47%
K₂CO₃ 0.10% max..
KCl 30 ppm max.
Iron (Fe) by EPA-6010B 0.5 ppm max.
Heavy metals (as Pb) 5 ppm max.
Sodium 2500 ppm max.

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7245-1
4 L	Poly Bottle	CABDH7245-4

Sodium Hydroxide, Solution Reagent Grade 50% (w/w) BDH®

Clear liquid. Corrosive and toxic.

APHA color.....	20 max.
Shelf-life.....	3 years
Sodium hydroxide.....	50-52 % (w/w)
Sodium carbonate.....	0.00-0.25 % (w/w)
Chloride.....	0.000-0.005%
Heavy metals (as Ag) by EPA-6010B.....	0.002 % max. wt.
Iron (Fe) by 6010B.....	0.0005 % wt. max.
Nickel (Ni).....	0.0005% max.
Nitrogen compounds (as N).....	0.0005% max.
Phosphate.....	0.0005% max.
Potassium.....	0.025% max.
Sulfate (SO ₄).....	0.003% max.

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7246-1
4 L	Poly Bottle	CABDH7246-4
10 L	Poly Drum	CABDH7246-8



Sodium Chloride, Solution 0.85 to 0.90% (w/v) BDH®

Made with deionized water

Appearance/color.....	Clear
N.I.S.T. traceable.....	Yes
Sodium chloride.....	0.890-0.910% w/w
Shelf-life.....	2 years

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7257-1
500 mL	Poly Bottle	CABDH7257-2
4 L	Poly Bottle	CABDH7257-4



Sodium Hydroxide Solution 10.00N BDH®

APHA.

Appearance/color.....	Clear
N.I.S.T. traceable.....	Yes
Normality.....	9.95-10.05
Shelf-life.....	2 years

Size	Packaging	Cat. No.
200 L	Poly Drum	CABDH7247-10
1 L	HDPE Bottle	CABDH7247-1
4 L	Poly Bottle	CABDH7247-4



Sulfuric Acid, Solution 10N BDH®

Made with deionized water

Appearance/color.....	Clear
N.I.S.T. traceable.....	Yes
Normality.....	9.95-10.05
Shelf-life.....	2 years

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7259-1



Ceric Sulfate 0.1N Solution BDH®

Made with purified water and dilute ACS grade sulfuric acid.

Normality.....	0.0995 - 0.1005
Appearance/color.....	Pass

Size	Packaging	Cat. No.
1 L	Amber Glass Bottle	CABDH7253-1



Acetate Buffer, pH 4.0 +/- 0.05 BDH®

APHA 4500-C1 and ASTM 1253-91 for chlorine. Standardized at 25°C against chemicals whose certification is traceable to NIST.

Appearance/color.....	Clear
Shelf-life.....	2 years
pH.....	3.50-4.20
CaCl ₂	2.73-2.77 % (w/v)

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7300-1
4 L	Poly Bottle	CABDH7300-4



Sodium Thiosulfate, Solution 0.01N BDH®

Suitable as a titrant. Made with deionized water.

Appearance/color.....	Clear
Normality.....	0.0095-0.0105
Shelf-life.....	6 months

Size	Packaging	Cat. No.
1 L	Poly bottle	CABDH7256-1
4 L	Poly Bottle	CABDH7256-4



Calcium Chloride, Solution 2.75% (w/v) BDH®

Made with deionized water.

Appearance/color.....	Clear
Shelf-life.....	1 year

Size	Packaging	Cat. No.
1 L	Poly bottle	CABDH7308-1



EDTA Titrant 0.100M (0.200N) BDH®

Suitable as a titrant. Made with deionized water.



Appearance/
color..... Clear
N.I.S.T. traceable Yes
Molarity..... 0.0995-0.1005
Shelf-life 18 months

Size	Packaging	Cat. No.
1 L	Poly Bottle	CABDH7314-1
4 L	Poly Bottle	CABDH7314-4

EDTA, Disodium Salt Dihydrate, Solution 0.0575M BDH®

Suitable as a titrant. Made with deionized water.



Appearance/color Clear
N.I.S.T. traceable Yes
Molarity..... 0.057-0.058
Shelf-life 2 years

Size	Packaging	Cat. No.
1 L	Poly bottle	CABDH7315-1

Fehling's Solution A, Copper Sulfate Solution 3.46% (w/v)

Made with deionized water.



Shelf-life 2 years

Size	Packaging	Cat. No.
1 L	Poly bottle	CABDH7316-1

Fehling's Solution B, Alkaline Solution BDH®

Made with deionized water



Shelf-life 2 years

Size	Packaging	Cat. No.
1 L	Poly bottle	CABDH7317-1

Iron (III) Chloride, Solution 0.025% (w/v) BDH®



Size	Packaging	Cat. No.
1 L	Poly Bottle	CABDH7318-1

Hydrochloric Acid, Solution 0.05N BDH®

Made with high purity acid and deionized water. Suitable as a titrant.



Appearance/color Clear
N.I.S.T. traceable Yes
Normality..... 0.0495-0.0505
Shelf-life 18 months

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7325-1

Iodine Monochloride, Solution 1.6% (w/w) in Acetic Acid. BDH®

Meets AOAC standards for iodine absorption number of oils and fats.



Appearance/color Brown liquid
Prepared according to formulation on file..... Yes

Size	Packaging	Cat. No.
4 L	Amber Glass Bottle	CABDH7327-4

Magnesium Sulfate, Solution 2.25% (w/v) BDH®

APHA for BOD (biological oxygen demand).



Appearance/color Pass

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7328-1

Manganese (II) Sulfate Monohydrate, Solution 364g/L (38%) BDH®

APHA and ASTM for DO (dissolved oxygen).



Appearance/color Clear pink liquid
Specific gravity 1.27

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7329-1

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Nessler's Reagent, Solution BDH®

Made with deionized water.



Appearance/color Clear yellow
Shelf-life 1 year

Size	Packaging	Cat. No.
500 mL	Poly bottle	CABDH7332-2

Phenolphthalein, Solution 0.5% in Dilute Isopropanol. BDH®

Made with 50% isopropanol



Appearance/color Pass

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7342-1
500 mL	Poly Bottle	CABDH7342-2

Nitric Acid, Solution 6.0N BDH®

Made with deionized water.



Appearance/color Clear
N.I.S.T. traceable Yes
Normality 5.95-6.05
Shelf-life 2 years

Size	Packaging	Cat. No.
1 L	Poly bottle	CABDH7334-1

Phenylarsine Oxide, Solution 0.00564n BDH®

APHA and ASTM. 1mL=0.2mg chloride.



Normality 0.00559 - 0.00569
pH at 25°C 6.000 - 7.000

Size	Packaging	Cat. No.
1 L	Amber Glass Bottle	CABDH7343-1
500 mL	Amber Glass Bottle	CABDH7343-2
4 L	Amber Glass Bottle	CABDH7343-4

Nitric Acid, Solution 50% (v/v) BDH®

Made with deionized water.



Appearance/color Clear
Shelf-life 18 months

Size	Packaging	Cat. No.
1 L	Poly bottle	CABDH7335-1

Phenolphthalein, Solution 1% in Alcohol. BDH®

Made with denatured ethanol.



Appearance/color Pass

Size	Packaging	Cat. No.
1 L	Poly bottle	CABDH7344-1
500 mL	Poly Bottle	CABDH7344-2
4 L	Poly Bottle	CABDH7344-4

Oxalic Acid, Solution 10% (w/v) BDH®

Made with deionized water.



Appearance/color Clear
Oxalic acid 9.75-10.25 % (w/v)
Shelf-life 1 year

Size	Packaging	Cat. No.
1 L	Poly bottle	CABDH7336-1

Phosphate Buffer, pH 7.2. BDH®

APHA for BOD (biological oxygen demand).



pH at 25°C 7.150 - 7.250

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7345-1
4 L	Poly Bottle	CABDH7345-4

Paraffin Oil, White BDH®



Shelf-life 2 years
Specific gravity 0.852-0.876 at 25/25 °C
Flash pt., tag closed cup 400°F max.
Odor description Pass test
Solid Pass
Viscosity at 100 °F ASTM-D₀₄₄₅/2161, Saybolt 180.0-190.0
Viscosity at 40 °C, ASTM D-0445, Centistokes 34.9-37.3

Size	Packaging	Cat. No.
4 L	Amber Glass Bottle	CABDH7338-4

o-Phosphoric Acid, Solution 10%, v/v (1+9) BDH®

Made with deionized water.



Appearance/color Clear
Shelf-life 2 years

Size	Packaging	Cat. No.
1 L	Poly bottle	CABDH7346-1

Potassium chloride solution 0.01M, conductivity standard 1413 μmhos/cm. BDH®



Conductivity standard: 1413 μS/m

Appearance/color Clear
N.I.S.T. traceable Yes
Shelf-life 1 year

Size	Packaging	Cat. No.
1 L	Poly bottle	CABDH7349-1

Potassium Iodide, Solution 10% (w/v) BDH®



Made with deionized water.

Appearance/color Clear
Shelf-life 1 year

Size	Packaging	Cat. No.
4 L	HDPE Bottle	CABDH7354-4

Potassium Iodide, Solution 20% (w/v) BDH®



Made with deionized water.

Appearance/color Clear
Shelf-life 1 year

Size	Packaging	Cat. No.
1 L	Poly bottle	CABDH7356-1

Sulfuric acid with specific gravity of 1.09



Sulfuric acid solution, about 13%. Acid is added to purified water until the specific gravity reaches 1.09 at 60°F

Size	Packaging	Cat. No.
4 L	Poly bottle	CABDH7357-4

Sulfuric Acid, Solution 10% (v/v) BDH®



Made with deionized water

Appearance/color Clear
Shelf-life 2 years

Size	Packaging	Cat. No.
4 L	Poly Bottle	CABDH7358-4

Silver Nitrate, Solution 0.0141N BDH®



Size	Packaging	Cat. No.
1 L	Amber Glass Bottle	CABDH7359-1

Silver Nitrate, Solution 0.0192N BDH®



APHA for cyanide. 1mL = 1mg cyanide.

Normality 0.0187 - 0.0197
Appearance/color Pass

Size	Packaging	Cat. No.
1 L	Amber Glass Bottle	CABDH7360-1

Sodium Hydroxide 33% (w/w) Solution BDH®



Sodium hydroxide 33% (w/w) in purified water.

Appearance/color Clear
Sodium hydroxide 32.6-33.4% (w/w)
Shelf-life 2 years

Size	Packaging	Cat. No.
4 L	Poly bottle	CABDH7363-4

Sodium Hydroxide, Solution 30% (w/v) BDH®



Made with deionized water

Appearance/color Clear
Assay w/v 29-31%
Shelf-life 2 years

Size	Packaging	Cat. No.
4 L	Poly Bottle	CABDH7364-4

Sodium Hydroxide 50.0% - Sodium Thiosulfate Solution 2.5% BDH®



Made with deionized water.

Appearance/color Clear
Shelf-life 1 year

Size	Packaging	Cat. No.
4 L	Poly Bottle	CABDH7365-4

Sulfuric Acid, Solution 20%, v/v (1+4) BDH®



Made with deionized water

Appearance/color Clear
Shelf-life 2 years
Density 1.2031-1.2353 at 20 °C
Sulfuric acid (v/v) 19.9-20.1

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7370-1
4 L	Poly Bottle	CABDH7370-4

Sulfuric Acid, Solution 50%, v/v (1+1) BDH®

APHA.



Appearance/color Clear
Shelf-life 2 years

Size	Packaging	Cat. No.
500 mL	HDPE Bottle	CABDH7371-2
4 L	HDPE Bottle	CABDH7371-4

Trichloroacetic Acid, 95.0 to 105.0% (w/v, 6.12M) BDH®

Made with deionized water. Suitable as a titrant.



Appearance/color Clear yellow
Shelf-life 2 years
Trichloroacetic acid 98-102% (w/v)

Size	Packaging	Cat. No.
500 mL	Amber Glass Bottle	CABDH7372-2

Boric Acid, Solution 2% (w/v) BDH®

Made with deionized water.



Appearance/color Clear
Shelf-life 1 year

Size	Packaging	Cat. No.
4 L	Poly bottle	CABDH7386-4

Bromophenol Blue, Sodium Salt, Solution 0.04% (w/v) BDH®

Made with deionized water.



Appearance/color Clear purple
Shelf-life 2 years

Size	Packaging	Cat. No.
500 mL	Poly bottle	CABDH7392-2

Bromothymol Blue, Sodium Salt, Solution 0.04% (w/v)

Made with deionized water.



Appearance/color Clear blue
Shelf-life 2 years

Size	Packaging	Cat. No.
500 mL	HDPE Bottle	CABDH7393-2

Chloride Standard, Solution 1mL=1mg Chloride BDH®

Made with deionized water.



Appearance/color Clear
N.I.S.T. traceable Yes
Shelf-life 1 year

Size	Packaging	Cat. No.
500 mL	Poly bottle	CABDH7396-2

Citric Acid, Solution 1M. BDH®

Made with deionized water.



Appearance/color Clear
N.I.S.T. traceable Yes
Molarity 0.995-1.005
Shelf-life 1 year

Size	Packaging	Cat. No.
1 L	Poly bottle	CABDH7397-1

Fluoride Standard, Solution 1mg/mL. BDH®

EPA. 1000ppm fluoride.



Size	Packaging	Cat. No.
500 mL	HDPE Bottle	CABDH7406-2

Fluoride Standard, Solution 0.1mg/mL. BDH®

EPA and APHA for fluoride. 100ppm fluoride.



Size	Packaging	Cat. No.
500 mL	HDPE Bottle	CABDH7407-2

Hydrochloric Acid, Solution 0.25N BDH®

Made with deionized water.



Appearance/color Clear
N.I.S.T. traceable Yes
Normality 0.2495-0.2505
Shelf-life 18 months

Size	Packaging	Cat. No.
1 L	Poly bottle	CABDH7416-1

Hydrochloric Acid, Solution 10% (v/v, 1+9) BDH®

APHA and ASTM.



Appearance/color Clear
Shelf-life 2 years

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7417-1
4 L	Poly Bottle	CABDH7417-4

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Hydrochloric Acid, Solution 50% v/v (1+1) BDH®



Made with deionized water.

Appearance/color Clear
Normality..... 5.950-6.050
Shelf-life 3 years

Size	Packaging	Cat. No.
1 L	Poly bottle	CABDH7418-1
4 L	Poly Bottle	CABDH7418-4

Hydrochloric Acid, Solution 5.0N BDH®



Made with deionized water. Suitable as a titrant.

Appearance/color Clear
Normality..... 4.39800-5.0200
Shelf-life 2 years

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7419-1
4 L	Poly Bottle	CABDH7419-4

Iodine, Solution 0.0282N BDH®



Made with iodine crystals, potassium iodide and deionized water.

Normality..... 0.0277 - 0.0288
Appearance/color Dark brown liquid

Size	Packaging	Cat. No.
1 L	Amber Glass Bottle	CABDH7422-1

Mercury (II) Nitrate, Solution 0.01410N in Dilute Nitric Acid. BDH®



APHA for chloride. 1mL = 0.5 mg sodium chloride. Contains 0.25 to 2.5% (w/v) mercury (II) nitrate and 0.25-0.5% (w/v) nitric acid.

Normality..... 0.0136 - 0.0146

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7430-1

1,10-Phenanthroline Monohydrate, Solution 0.1% (w/v) in Dilute Hydrochloric Acid. BDH®



APHA for iron.

Appearance/color Pass

Size	Packaging	Cat. No.
500 mL	HDPE Bottle	CABDH7443-2

Potassium Permanganate, Solution 5% (w/v) BDH®



Made with potassium permanganate low mercury grade.

Appearance/color dark purple
Potassium permanganate 4.0-5.1 % (w/v)
Shelf-life 1 year

Size	Packaging	Cat. No.
500 mL	Poly bottle	CABDH7450-2

Potassium Fluoride, Solution 50% (w/w) BDH®



Made with deionized water.

Appearance/color Clear
Shelf-life 2 years
pH 8.00-8.20 of 1:6 dilution
Density 1.28-1.33

Size	Packaging	Cat. No.
1 L	Poly bottle	CABDH7455-1

Potassium Hydroxide, Solution 0.1N in Ethanol. BDH®



Made with 200 proof ethyl alcohol. Prepared to ASTM D 94.

Appearance/color Clear
Molarity..... 0.0995-0.1005
Shelf-life 1 year

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7457-1

Potassium Iodide, Stabilized Solution 5% (w/v) BDH®



Made with potassium iodide, potassium hydroxide solution and deionized water.

Appearance/color Clear
Shelf-life 1 year

Size	Packaging	Cat. No.
1 L	Poly bottle	CABDH7458-1

Sodium Chloride 0.85% w/v Solution BDH®



Made with purified water and ACS grade sodium chloride.

Appearance/color Clear
Shelf-life 2 years
Sodium chloride % (w/v)..... 0.84-0.86

Size	Packaging	Cat. No.
1 L	Poly bottle	CABDH7466-1

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Sodium Hydroxide, Solution 0.25N BDH®

ASTM.



Appearance/color Clear
 N.I.S.T. traceable Yes
 Normality 0.2495-0.2505
 Shelf-life 2 years

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7469-1
4 L	Poly Bottle	CABDH7469-4

Sodium Hydroxide, Solution 10% (w/v) BDH®

Made with deionized water



Appearance/color Clear white
 Shelf-life 2 years
 Sodium hydroxide % (w/v) 9.9-10.1

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7470-1
4 L	HDPE Bottle	CABDH7470-4

Sodium Hydroxide, Solution 3.0N BDH®

Made with deionized water



Appearance/color Clear
 N.I.S.T. traceable Yes
 Normality 2.995-3.005
 Shelf-life 2 years

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7472-1

Sulfuric Acid, Solution 4.0N BDH®

Made with high purity acid and deionized water. Suitable as a titrant.



Appearance/color Clear
 N.I.S.T. traceable Yes
 Normality 3.995-4.005
 Shelf-life 2 years

Size	Packaging	Cat. No.
4 L	Poly Bottle	CABDH7484-4

Sulfuric Acid, Solution 6.0N BDH®

Made with high purity acid and deionized water. Suitable as a titrant.



Appearance/color Clear
 N.I.S.T. traceable Yes
 Normality 5.99-6.01 (calculated)
 Shelf-life 2 years

Size	Packaging	Cat. No.
2.4 L	Poly Bottle	CABDH7486-3

Water Hardness Buffer BDH®

Made with deionized water, ammonium chloride, ammonium hydroxide and EDTA magnesium salt.



Appearance/color Pass

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7491-1

Total Ionic Strength Adjustment Buffer Solution (TISAB) BDH®

ASTM formulation D 1179 with deionized water, acetic acid, sodium chloride and sodium citrate.



Blank fluoride value 0.00 - 0.50
 pH at 25°C 5.000 - 5.500
 Appearance/color Clear liquid

Size	Packaging	Cat. No.
4 L	Poly Bottle	CABDH7492-4

EDTA, Disodium Salt Dihydrate, Solution 0.05M. BDH®

Made with deionized water.



Appearance/color Clear
 N.I.S.T. traceable Yes
 Molarity 0.0495-0.0505
 Shelf-life 1 year

Size	Packaging	Cat. No.
4 L	Poly Bottle	CABDH7497-4

Methanol, Solution 50% (v/v)

Made with deionized water.



Appearance/color Clear
 Shelf-life 1 year

Size	Packaging	Cat. No.
4 L	Poly bottle	CABDH7498-4

Sulfuric Acid, Solution 2.0N BDH®

Corrosive clear, colorless liquid. 5 to 6% sulfuric acid.



Appearance/color Clear
 N.I.S.T. traceable Yes
 Normality 1.999-2.001
 Shelf-life 18 months

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7500-1

**Potassium Phthalate, Solution
1000 ppm Carbon BDH®**



TOC standard

Certified TOC value 980 - 1020

Size	Packaging	Cat. No.
500 mL	HDPE Bottle	CABDH7510-2

**EDTA, Disodium Salt Dihydrate, Solution
Reagent Grade 0.25M. BDH®**



Made with deionized water.

Molarity 0.2495 - 0.2505
N.I.S.T. Traceable to SRM 915 Yes
Appearance/color Pass

Size	Packaging	Cat. No.
500 mL	Poly Bottle	CABDH7590-2

**Hydrogen Peroxide, Stabilized
Solution 3% (w/w) BDH®**



Appearance/color Clear
N.I.S.T. traceable Yes
Shelf-life 18 months

Size	Packaging	Cat. No.
10 L	Poly Drum	CABDH7540-10
500 mL	Poly Bottle	CABDH7540-2
4 L	Poly Bottle	CABDH7540-4

Hydrochloric Acid, Solution 0.2N BDH®



Made with high purity acid and deionized water. Suitable as a titrant.

Appearance/color Clear
N.I.S.T. traceable Yes
Normality 0.1995-0.2005
Shelf-life 18 months

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7593-1
4 L	Poly Bottle	CABDH7593-4

**Potassium Hydroxide, Solution
0.1N in Methanol. BDH®**



Appearance/color Clear
N.I.S.T. traceable Yes
Normality 0.0095-0.1005
Shelf-life 1 year

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7548-1
4 L	Poly Bottle	CABDH7548-4

Methyl Orange, Indicator Solution 0.1% (w/v)



Made with deionized water.

Appearance/color Clear
Shelf-life 18 months

Size	Packaging	Cat. No.
1 L	Poly bottle	CABDH7610-1

**Ammonium Hydroxide,
Solution 50% (v/v) BDH®**



1 + 1 formulation (v/v)

Appearance/color Pass

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7571-1
4 L	Poly Bottle	CABDH7571-4

**Hydrochloric Acid, Solution
25% (v/v, 1+3) BDH®**



Made with deionized water.

Appearance/color Clear
Shelf-life 2 years

Size	Packaging	Cat. No.
4 L	Poly bottle	CABDH7614-4

BDH® Starch (Modified) Indicator, 0.5%



Starch (modified) indicator, 0.5% contains 5g/L of soluble (acid hydrolyzed) starch (iodometric indicator) plus salicylic acid and zinc chloride in deionized water.

Size	Packaging	Cat. No.
1 L	Poly Bottle	CABDH7576-1
500 mL	Poly Bottle	CABDH7576-2

Ammonium Hydroxide, Solution 5.0N BDH®



APHA.

Appearance/color Clear
N.I.S.T. traceable Yes
Normality 4.98-5.02
Shelf-life 2 years

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7615-1

EDTA, Disodium Salt Dihydrate, Solution 0.0100M. BDH®

Suitable as a titrant. Made with deionized water.



Appearance/color	Clear
N.I.S.T. traceable	Yes
Molarity	0.0095-0.0105
Shelf-life	18 months

Size	Packaging	Cat. No.
4 L	Poly Bottle	CABDH7621-4

Potassium Hydroxide, Solution 50% (w/v) BDH®

APHA for anaerobic sludge.



Appearance/color	Clear
Shelf-life	2 years
Potassium hydroxide % (w/v)	48-52

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7622-1

BDH® Starch (Modified) Indicator, 2%

Starch (modified) indicator, 2% contains 20g/L of soluble (acid hydrolyzed) starch (iodometric indicator), plus salicylic acid and zinc chloride in deionized water. Stabilized with a small amount of benzoic acid.



Appearance/color	Clear
Shelf-life	1 year

Size	Packaging	Cat. No.
500 mL	Poly Bottle	CABDH7638-2

Sulfuric Acid, Solution 5.0N BDH®

Clear, colorless liquid.



Color (APHA)	10 max.
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Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7648-1

Hydrogen Peroxide 30%, Stabilized. ACS BDH®



Ammonium NH ₄	5 ppm max.
Assay (w/w)	29.0 to 32.0%
Chloride (Cl)	3 ppm max.
Color (APHA)	10 max.
Heavy Metals (as Pb)	1 ppm max.
Iron (Fe)	0.5 ppm max.
Nitrate NO ₃	2 ppm max.
Phosphate (PO ₄)	2 ppm max.
Residue after Evaporation	0.002% max.
Sulfate (SO ₄)	5 ppm max.
Titrateable Acid	0.0006 mEq/g max.

Size	Packaging	Supplier No.	Cat. No.
500 mL	Poly Bottle	BDH7690-1	CABDH7690-1
2.4 L	Poly Bottle	BDH7690-3	CABDH7690-3

Potassium Hydroxide, Solution 0.5N in Methanol. BDH®

Standardized at 25°C against chemicals whose certification is traceable to NIST.



Appearance/color	Clear
N.I.S.T. traceable	Yes
Normality	0.4995-0.5005
Shelf-life	1 year

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7730-1

Hydrogen Peroxide 30%, ACS Stabilized BDH®



APHA color	10 max.
Shelf-life	2 years
Heavy metals (as Pb)	1 ppm max.
Chloride	3 ppm max.
Iron (Fe) wt by 6010B	0.5 ppm max.
Ammonium (NH ₄)	5 ppm max.
Phosphate	2 ppm max.
Sulfate (SO ₄)	5 ppm max.
Nitrate (NO ₃)	2 ppm max.
Titrateable acid	max. 0.0006 MEQ/G
Assay (H ₂ O ₂)	29-32%
Residue after evaporation	0.002% max.

Size	Packaging	Cat. No.
1 L	Poly Bottle	CABDH7742-1

Bromate Bromide, Solution 0.1N BDH®

APHA for phenols.



Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7862-1

Ammonium Hydroxide, Solution 20% (v/v) BDH®

ASTM for water hardness.



Appearance/color	Clear
Shelf-life	2 years

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7868-1

Hydrochloric Acid, Solution 20% (v/v, 1+4) BDH®

Made with deionized water.



Appearance/color	Pass
------------------------	------

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7871-1
4 L	Poly bottle	CABDH7871-4

**Carbon Standard, Organic Solution
1mL = 1mg Carbon BDH®**

APHA for total organic carbon. Meets EPA 415-1.



Size	Packaging	Cat. No.
500 mL	Poly Bottle	CABDH7880-2

Phenylarsine Oxide, Solution 0.025N BDH®

Normality..... 0.0246 - 0.0254



Size	Packaging	Cat. No.
1 L	Amber Glass Bottle	CABDH7883-1

Iodine, Solution, 0.01N BDH®

Made with iodine crystals, potassium iodide and deionized water.

Normality..... 0.0095 - 0.0105
Appearance/color Dark brown liquid



Size	Packaging	Cat. No.
1 L	Poly bottle	CABDH7897-1

**Magnesium Chloride, Solution,
Reagent Grade, 51% (w/v) BDH®**

Made with deionized water.

Appearance/color Clear to slightly hazy
Shelf-life 2 years
Magnesium chloride..... 48.5-53.5%



Size	Packaging	Cat. No.
1 L	Poly bottle	CABDH7899-1

Nitric Acid, Solution 20% (v/v) BDH®

Meets APHA standards.

Appearance/color Clear
Shelf-life 2 years
Density..... 1.0799-1.1334 at 20 °C



Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7904-1

**Potassium Hydroxide, Solution
10% (w/v) BDH®**

Made with deionized water.

Appearance/color Clear
N.I.S.T. traceable Yes
Shelf-life 2 years
Potassium hydroxide % (w/v) 9.9-10.1



Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7907-1

Silver Nitrate, Solution, 0.171N BDH®

Made with deionized water.



Appearance/color Clear
N.I.S.T. traceable Yes
Normality..... 0.1705-0.1715
Shelf-life 18 months

Size	Packaging	Cat. No.
4 L	Poly bottle	CABDH7916-4

Silver Nitrate Solution 0.5N BDH®

Made with deionized water.



Appearance/color Clear
N.I.S.T. traceable Yes
Normality..... 0.4995-0.5005
Shelf-life 2 years

Size	Packaging	Cat. No.
1 L	Poly bottle	CABDH7917-1

Sulfuric Acid Solution 2.5N BDH®

Made with deionized water.



Appearance/color Clear
N.I.S.T. traceable Yes
Normality..... 2.498-2.502
Shelf-life 2 years

Size	Packaging	Cat. No.
1 L	Poly bottle	CABDH7922-1

L-(+)-Tartaric Acid, Solution 10% (w/v) BDH®

Assay 9.70 - 10.30% (w/v)
Appearance/color Clear liquid



Size	Packaging	Cat. No.
500 mL	HDPE Bottle	CABDH7923-2

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Food Analysis

Titration

Trichloroacetic Acid 10% Aqueous Solution BDH®

Made with purified water.



Size	Packaging	Cat. No.
500 mL	poly bottle	CABDH7926-2

Trichloroacetic Acid 20% Aqueous Solution BDH®

Made with purified water.



Trichloroacetic acid 19.5 - 20.5% w/w
Appearance/color Pass

Size	Packaging	Cat. No.
500 mL	Poly Bottle	CABDH7930-2

Ammonium Hydroxide, Solution 10% (v/v) BDH®

APHA.



Appearance/color Clear
Shelf-life 1 year

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7938-1

Citric Acid 10% Aqueous Solution BDH®

Made with deionized water.



Appearance/color Clear to pale yellow
Shelf-life 2 years
Citric acid 9.5-10.5% (w/v)

Size	Packaging	Cat. No.
1 L	Poly bottle	CABDH7949-1

Sodium Carbonate, Solution 1N BDH®

Made with deionized water. Suitable as a titrant.



Appearance/color Clear
N.I.S.T. traceable Yes
Normality 0.9995-1.0005
Shelf-life 2 years

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7971-1

Sodium Hydroxide, Solution 40% (w/w) BDH®

Made with deionized water.



Appearance/color Clear
Shelf-life 3 years
Weight % sodium hydroxide (w/w) 39.6-40.4

Size	Packaging	Cat. No.
4 L	Poly Bottle	CABDH7994-4
10 L	NAMPAC*	CABDH7994-6

Sodium Hydroxide, Solution 50% (w/w) BDH®

Made with deionized water.



Sodium hydroxide 50-52% w/w
Sodium carbonate 0.00-0.25% w/w
Chloride 0.000-0.005% w/w
Heavy metals (as Ag) by EPA-6010B 0.0005% w/w
Iron (Fe) by EPA-6010B 0.0005% w/w
Nickel (Ni) 0.0005% w/w
Nitrogen compounds (as N) 0.0005% w/w
Phosphate 0.025% w/w
Potassium 0.003% w/w

Size	Packaging	Cat. No.
4 L	Poly Bottle	CABDH7996-4

Decalcifying Solution BDH®

Made with formic acid.



Size	Cat. No.
1 L	CABDH7797-1

Potassium Thiocyanate Solution 0.1N BDH®

Made with deionized water.



Normality 0.0995 - 0.1005
Appearance/color Pass

Size	Packaging	Cat. No.
1 L	Poly bottle	CABDH7807-1

Hydrogen Peroxide, Solution 3% (w/w) BDH®

Made with deionized water.



Size	Packaging	Cat. No.
1 L	Poly Bottle	CABDH7637-1

Potassium Chloride Solution 3.0M BDH®

Made with deionized water.



Appearance/color Clear
Shelf-life 2 years

Size	Packaging	Cat. No.
100 mL	Poly bottle	CABDH7296-0

Tetrahydrofuran Propylene Glycol, Solution 80:20

Made with stabilized tetrahydrofuran.



Appearance/color Clear and free of solids
Shelf-life 2 years

Size	Packaging	Cat. No.
4 L	Poly Bottle	CABDH7361-4

Sodium Hydroxide, Solution 0.01N BDH®

Made with deionized water. Suitable as a titrant.



Appearance/color Clear
 N.I.S.T. traceable Yes
 Normality 0.0095-0.0105
 Shelf-life 1 year

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7620-1

Hydrochloric Acid Solution 3.0N BDH®

Made with deionized water.



Appearance/color Clear
 N.I.S.T. traceable Yes
 Normality 2.995-3.005
 Shelf-life 1 year

Size	Packaging	Cat. No.
1 L	Poly bottle	CABDH7375-1

Sulfuric Acid, Solution 25% (v/v) BDH®

Made with deionized water.



Appearance/color Clear
 Shelf-life 2 years
 Density 1.24-1.27 at 25 °C

Size	Packaging	Cat. No.
1 L	HDPE Bottle	CABDH7339-1

Potassium Hydroxide Solution 0.1N in 2-Propanol. BDH®



Appearance/color Clear
 N.I.S.T. traceable Yes
 Normality 0.0995-0.1005
 Shelf-life 1 year

Size	Packaging	Cat. No.
1 L	Poly bottle	CABDH7630-1



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Together, We Enable Science.



Food Analysis

Titration

Ammonium Hydroxide, Solution 6.0N BDH®

41.4% (v/v) in water.



Appearance/color Clear
 N.I.S.T. traceable Yes
 Normality 5.98-6.02
 Shelf-life 2 years

Size	Packaging	Cat. No.
500 mL	HDPE Bottle	CABDH7641-2

TRIS, Solution 1M, pH 8.0 BDH®

Made with deionized water ultra pure.



Appearance/color Clear
 Shelf-life 18 months
 pH 7.900-8.050

Size	Packaging	Cat. No.
1 L	Poly Bottle	CABDH7729-1

EDTA 0.5M Standard solution BDH®

N.I.S.T traceable to SRM 919. Suitable as a titrant or testing standard.



Appearance/color Clear
 N.I.S.T. traceable Yes
 Molarity 0.499-0.501
 Shelf-life 18 months

Size	Packaging	Cat. No.
1 L	Poly bottle	CABDH7830-1

TRIS, Solution 1M, 12.1% (w/v) pH 7.5 BDH®

Made with deionized water ultra pure.



Appearance/color Clear
 Shelf-life 18 months
 pH 7.450-7.550

Size	Packaging	Cat. No.
1 L	Poly Bottle	CABDH7731-1

TE, Solution BDH®

Liquid. Contains ultra pure deionized water, 0.5M EDTA with pH 7.5, and 1M TRIS with pH 8.



Size	Packaging	Cat. No.
1 L	Poly Bottle	CABDH7732-1

Polysorbate 80, Solution BDH®



Size	Packaging	Cat. No.
500 mL	Amber Glass Bottle	CABDH7781-2

Hydrogen Peroxide BDH®

Flamable and corrosive.



APHA color 25 max.
 Shelf-life 2 years
 pH 2.00-4.00
 Assay (H₂O₂) 34-36%

Size	Packaging	Cat. No.
2.4 L	Poly Bottle	CABDH7814-3

Sodium Phosphate 0.1M, pH 7.0 Buffer BDH®

Made with sodium phosphate monobasic monohydrate, sodium hydroxide solution and deionized water.



Appearance/color Clear
 Shelf-life 2 years
 pH 6.980-7.020 at 25 °C

Size	Packaging	Cat. No.
4 L	Poly Bottle	CABDH7895-4

Buffer pH 2.25 Maleic Acid BDH®

Contains maleic acid 0.05M with sodium hydroxide and de-ionized water.



pH at 25°C 2.230 - 2.270

Size	Packaging	Cat. No.
4 L	Poly bottle	CABDH7896-4

Methanol, Solution 20% (v/v) BDH®



Methanol 18.0 - 22.0% v/v
 Water 78.0 - 82.0% v/v
 Density 0.9497 - 0.9897

Size	Packaging	Cat. No.
4 L	Poly Bottle	CABDH7905-4

Buffered Guanidine HCl 8M BDH®

In deionized water buffered with sodium hydroxide solution and TRIS hydrochloride.



Size	Packaging	Cat. No.
1 L	Poly bottle	CABDH7427-1

Sodium Hydroxide 5.2 N Solution BDH®

Made with purified water.



Normality..... 5.175 - 5.225
Appearance/color Pass

Size	Packaging	Cat. No.
4 L	Poly Bottle	CABDH7950-4

Calcium Nitrate Tetrahydrate, ACS

Colorless, hygroscopic solid



Assay 99 to 103.0% Ca(NO₃)₂ 4H₂O
pH of a 5% solution at 25.0°C 5.0 to 7.0
Insoluble matter 0.005% max
Chloride (Cl) 0.005% max
Nitrite (NO₂) 0.001% max
Sulfate (SO₄) 0.002% max
Barium (Ba) 0.005% max
Heavy metals (as Pb) 5 ppm max
Iron (Fe) 5 ppm max
Magnesium (Mg) 0.05% max
Potassium (K) 0.005% max
Sodium (Na) 0.01% max
Strontium (Sr) 0.05% max

Size	Packaging	Cat. No.
500 g	Poly Bottle	CABDH9226-500G
2.5 kg	Poly Bottle	CABDH9226-2.5K

Sand, Ottawa

Beige granules



Moisture content 0.1% max
Particle size 30-40 mesh 80% min

Size	Cat. No.
2.5 kg	CABDH9274-2.5K
500 g	CABDH9274-500G

Trichloroacetic Acid, ACS

White or nearly colorless moist crystal plates. Soluble in water.



Assay 99% CCl₃COOH min
Clarity of solution Passes test
Insoluble matter 0.01% max
Residue after ignition 0.03% max
Chloride (Cl) 0.002% max
Nitrate (NO₃) 0.002% max
Phosphate (PO₄) 5 ppm max
Sulfate (SO₄) 0.02% max
Heavy metals (as Pb) 0.002% max
Iron (Fe) 0.001% max
Substances darkened by sulfuric acid Passes test

Size	Cat. No.
500 g	CABDH9310-500G

Nickel Test Method: Colorimetric With Test Strips 10 - 25 - 100 - 250 - 500 mg/l Ni MQuant™, EMD Millipore

The nickel test can be used for the testing of waste water and electroplating solutions, in the glass and ceramic industry in the testing of catalysts and of mordants used for textile printing. The test strips offer a very simple means of determining nickel in all aqueous media and on metal surfaces. They can thus be used to distinguish between nickelous and non nickelous metals.

EMD # 1.10006.0001 replaces and is identical to EMD # 10006-1

Description	Includes	Supplier No.	Cat. No.
Test with Strips	100 strips	1.10006.0001	CA1.10006.0001

Nitrite Test Method: Colorimetric With Test Strips 0.1 - 0.3 - 0.6 - 1 - 2 - 3 g/l NO₂- MQuant™, EMD Millipore

The test can be used for measuring the nitrit concentration of boiler water and cooling water.

EMD # 1.10022.0001 replaces and is identical to EMD # 10022-1

Description	Includes	Supplier No.	Cat. No.
Test with Strips	100 strips	1.10022.0001	CA1.10022.0001

Peracetic Acid Test Method: Colorimetric With Test Strips 5 - 10 - 20 - 30 - 50 mg/l MQuant™, EMD Millipore

The test is suitable for the selective determination of peracetic acid traces in aqueous solutions and for check the absence of peracetic acid after rinsing processes, also in cases in which hydrogen peroxide is present.

EMD # 1.10084.0001 replaces and is identical to EMD # 10084-1

Description	Includes	Supplier No.	Cat. No.
Test with Strips	100 strips	1.10084.0001	CA1.10084.0001

Copper Test Method: Colorimetric With Test Strips 10 - 30 - 100 - 300 mg/l Cu MQuant™, EMD Millipore

The test is suitable, for instance, for monitoring and testing of wastewater, from electroplating and copper etching process as well as waste water used in the manufacture of printing plates and printed circuits. The test strips offer a very simple means of determining iron in all aqueous media and on metal surfaces.

EMD # 1.10003.0001 replaces and is identical to EMD # 10003-1

Description	Includes	Supplier No.	Cat. No.
Test with Strips	100 strips	1.10003.0001	CA1.10003.0001

Total Hardness Test Method: Colorimetric (4 Reaction Zones) MQuant™, EMD Millipore

4 Reaction Zones: <3 - >4 - >7 - >14 - >21°d <4 - >5 - >9 - >18 - >26°e <5 - >7 - >12 - >25 - >37°f. The total hardness test can be used to measure water hardness. Water hardness is caused by the presence of alkaline earths, primarily calcium and magnesium. Total hardness is measured as the sum of all calcium and magnesium ions.

EMD # 1.10025.0001 replaces and is identical to EMD # 10025-1

Description	Includes	Supplier No.	Cat. No.
Test with Strips	100 strips	1.10025.0001	CA1.10025.0001

Potassium Phosphate Tribasic, Heptahydrate, ACS



White solid

Assay (as-is basis).....	98% min. K ₃ PO ₄ (7H ₂ O)
Dibasic potassium phosphate.....	1% max.
Excess alkali (as KOH).....	1% max.
Insoluble matter.....	0.01% max.
Chloride (Cl).....	0.005% max.
Heavy metals (as Pb).....	0.002% max.
Iron (Fe).....	0.001% max.
Sulfate (SO ₄).....	0.005% max.
Sodium (Na).....	0.1% max.

Size	Cat. No.
2.5 kg	CABDH9270-2.5K
500 g	CABDH9270-500G

BDH® Potassium Sodium Tartrate Tetrahydrate, ACS



Colorless or white solid

Assay.....	99 to 102% KNaC ₄ H ₄ O ₆ 4H ₂ O
pH of a solution at 25.0°C.....	6.0 to 8.5
Insoluble matter.....	0.005% max
Chloride (Cl).....	0.001% max
Phosphate (PO ₄).....	0.002% max
Sulfate (So ₄).....	0.005% max
Ammonium (NH ₄).....	0.002% max
Calcium (Ca).....	0.005% max
Heavy metals (as Pb).....	5 ppm max
Iron (Fe).....	0.001% max

Size	Cat. No.
500 g	CABDH9272-500G

Digital Rotational Viscometer ALPHA Series, Fungilab

Alpha Series is a basic digital rotational viscometer for easy viscosity readings. Low budget and easy to use.

Main features include: 4LCD display for easy menu access and results reading, relative and absolute viscosity reading automatically, unit convert SI to CGS; Autotest and Autorange functions; 10 language options. 6 touch keypad. LCD screen. 4 lines.

CE certified. TURV certified. ISO 9001. BS: 6075, 5350. ISO: 2555, 1652. ASTM: 115, 789, 1076, 1084, 1286, 1417, 1439, 1638, 1824, 2196, 2336, 2364, 2393, 2556, 2669, 2849, 2983, 2994, 3232, 3236, 3716.

Ordering Information: Standard delivery includes: head boss, standard spindles (6 spindles for R&H models / 4 spindles for L models), viscometer stand, spindle protector and user's manual. Carrying case not included. No software available. No temperature function.



Dimensions	59x45x33 cm (23.22x13x17.1")
Electrical	110 to 220V
Sample Volume	600 mL
Speed Range	From 0.3 to 100 rpm and 18 speeds
Weight	7 Kg (15.43 Lbs.)

Description	Measurement Range	Supplier No.	Cat. No.
Digital Rotational Viscometer ALPHA Series H for High viscosity measurement by Fungilab viscometers.	200 to 106.000.000 cP	V100001	89236-996
Digital Rotational Viscometer ALPHA Series R for Regular viscosity measurements by Fungilab viscometers	100 to 13.000.000 cP	V100002	89236-998
Digital Rotational Viscometer ALPHA Series L for Low viscosity measurement by Fungilab viscometers	20 to 2.000.000 cP	V100003	89237-000
Digital Rotational Viscometer ALPHA Series H for High viscosity measurement by Fungilab viscometers with PPR spindle coupling system	200 to 106.000.000 cP	V101001	89237-176
Digital Rotational Viscometer ALPHA Series R for Regular viscosity measurement by Fungilab viscometers with PPR spindle coupling system	100 to 13.000.000 cP	V101002	89237-178
Digital Rotational Viscometer ALPHA Series L for Low viscosity measurement by Fungilab viscometers with PPR spindle coupling system	20 to 2.000.000 cP	V101003	89237-180

Accessories	Supplier No.	Cat. No.
Description Carrying case for Alpha Series	V10305N	89237-006

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VWRCATALYST offers complete technical services for equipment and instruments, including calibration, qualification, validation, certification, contract and warranty management, and repair. We can help you comply with all pertinent FDA, GLP/GMP, ISO, NCCLS, CAP, CLIA, and 21 CFR requirements. Contact us today at **1.888.793.2300** or visit ca.vwr.com/vwrcatalyst for more information.



Digital "Pocket" Refractometers and Special Scales, ATAGO®

These compact, pocket-sized refractometers allow you to take measurements anywhere with ease, indoors or outdoors. To use, simply place a drop of sample on the prism surface and press the start key. The Brix value will be displayed in 3 seconds on the digital LCD. Units feature ELI (External Light Interference) technology, which provides security when performing measurements outside or near a bright window.

The units can take a measurement of a high temperature sample that has been heated or boiled. Rinse off samples easily by running water on the sample stage. The units eliminate the need for frequent zero setting; they only require zero setting at the start of each workday. Three models are available to suit a wide range of measurement needs.

Ordering Information: One-year manufacturer's warranty. Supplied with a storage case and two AAA batteries. A calibration certificate is available. Contact your VWR representative for information.



Ambient temperature	10 to 40°C (50 to 104°F)
Dimensions	55W x 31D x 109H mm (2 ³ / ₁₆ x 1 ¹ / ₈ x 4 ⁵ / ₁₆ "
International Protection Class	IP65
Measurement Accuracy	PAL-1/PAL-2 ±0.2% Brix PAL-3 ±0.1% Brix
Measurement Temperature Range	10 to 100°C (50 to 212°F) (Automatic Temperature Compensation)
Power Supply	Two AAA Batteries
Resolution	0.1% Brix
Weight	100 g (3.5 oz.)

Description	Brix Range	Color	Supplier No.	Cat. No.
PAL-2	45–93 %	Red	3820-PAL-2	12000-668

Accessories		
Description	Supplier No.	Cat. No.
Sodium Chloride (Concentrated)	4403	80093-904
Sodium Chloride (S.G.)	4404	80093-906
Sodium Chloride (Baumé)	4405	80093-908
Seawater (Concentrated)	4406	80093-910
Seawater (S.G.)	4407	80093-912
Seawater (Baumé)	4408	80093-914
Dextran	4412	80093-916
Creatine	4413	80093-918
Fructose	4414	80093-920
Glucose	4415	80093-922
High Fructose Corn Syrup	4416	80093-924
High Fructose Corn Syrup	4417	80093-926
Inverted Sugar	4418	80093-928
Lactose	4419	80093-930
Maltose	4420	80093-932
Dextrin	4421	80093-934
Honey Moisture	4422	80093-936
Glycerin (Low Concentration)	4423	80093-938
Glycerin (High Concentration)	4424	80093-940
Inulin	4425	80093-942
Mannitol	4426	80093-944
Soy Milk	4427	80093-946
Citric Acid	4429	80093-948
Acetic Acid	4430	80093-950
Formic Acid	4431	80093-952
Phosphoric Acid	4432	80093-954
Ethyl Alcohol	4434	80093-956
Methyl Alcohol	4436	80093-958
Isopropyl Alcohol	4437	80093-960
Dimethyl Formamide	4438	80093-962
Hydrogen Peroxide	4439	80093-964
Sodium Hydroxide	4440	80093-966
Calcium Chloride	4441	80093-968
Cesium Chloride	4442	80093-970
Magnesium Chloride	4443	80093-972
Lithium Chloride	4444	80093-974
Barium Chloride	4445	80093-976
Cobalt Chloride	4446	80093-978

Accessories		
Description	Supplier No.	Cat. No.
Ferric Chloride	4447	80093-980
Strontium Chloride	4448	80093-982
Potassium Chloride	4449	80093-984
Potassium Bromide	4450	80093-986
Sodium Bromide	4451	80093-988
Potassium Iodide	4452	80093-990
Copper Sulfate (Concentrated)	4453	80093-992
Copper Sulfate (S.G.)	4454	80093-994
Magnesium Sulfate	4455	80093-996
Potassium Sulfate	4456	80093-998
Nickel Sulfate	4457	80094-000
Sodium Nitrate	4458	80094-002
Zinc Sulfate	4459	80094-004
Silver Nitrate	4460	80094-006
Sodium Nitrate	4461	80094-008
Potassium Carbonate	4462	80094-010
Sodium Carbonate	4463	80094-012
Sodium Bicarbonate	4464	80094-014
Sodium Tartrate	4465	80094-016
Potassium Oxalate	4466	80094-018
Potassium Chromate	4467	80094-020
Potassium Dichromate	4468	80094-022
Sodium Thiosulfate	4469	80094-024
Potassium Phosphate	4470	80094-026
Sodium Molybdate	4471	80094-028
Sodium Tungstate	4472	80094-030
Wine, T.A. 1990	4479	80094-032
Wine, T.A. 1971	4480	80094-034
Wine, KMW (or Babo)	4483	80094-036
Wine, Baumé	4484	80094-038
Polyvinyl Alcohol	4485	80094-040
Wine, Oe (Ger), Brix	4486	80094-042
Wine, Oe (Oechsle), Brix	4487	80094-044
Propylene Glycol (°C Freezing Point)	4488	80094-046
Propylene Glycol (°F Freezing Point)	4489	80094-048
Ethylene Glycol (°C Freezing Point)	4491	80094-050
Ethylene Glycol (°F Freezing Point)	4492	80094-052

Special Scales for Digital "Pocket" Refractometers and Special Scales, ATAGO®



Ambient temperature	10 to 40°C (50 to 104°F)
Dimensions	55W x 31D x 109H mm (2 ³ / ₁₆ x 1 ¹ / ₈ x 4 ⁵ / ₁₆ ")
International Protection Class	IP65
Measurement Accuracy	±0.2% Brix
Measurement Temperature Range	10 to 60°C (50 to 140°F) (Automatic Temperature Compensation)
Power Supply	Two AAA Batteries
Resolution	0.1% Brix
Weight	100 g (3.5 oz.)

Description	Color	Supplier No.	Cat. No.
Sodium Chloride (Concentrated)	Mirror	4403	80093-904
Sodium Chloride (S.G.)	Blue	4404	80093-906
Sodium Chloride (Baumé)	Blue	4405	80093-908
Seawater (Concentrated)	Blue	4406	80093-910
Seawater (S.G.)	Blue	4407	80093-912
Seawater (Baumé)	Blue	4408	80093-914
Dextran	Pink	4412	80093-916
Creatine	Pink	4413	80093-918
Fructose	Orange	4414	80093-920
Glucose	Orange	4415	80093-922
High Fructose Corn Syrup	Orange	4416	80093-924
High Fructose Corn Syrup	Orange	4417	80093-926
Inverted Sugar	Orange	4418	80093-928
Lactose	Orange	4419	80093-930
Maltose	Orange	4420	80093-932
Dextrin	Pink	4421	80093-934
Honey Moisture	Yellow	4422	80093-936
Glycerin (Low Concentration)	Pink	4423	80093-938
Glycerin (High Concentration)	Pink	4424	80093-940
Inulin	Pink	4425	80093-942
Mannitol	Pink	4426	80093-944
Soy Milk	Orange	4427	80093-946
Citric Acid	Orange	4429	80093-948
Acetic Acid	Orange	4430	80093-950
Formic Acid	Pink	4431	80093-952
Phosphoric Acid	Pink	4432	80093-954
Ethyl Alcohol	Mirror	4434	80093-956
Methyl Alcohol	Mirror	4436	80093-958
Isopropyl Alcohol	Mirror	4437	80093-960
Dimethyl Formamide	Pink	4438	80093-962
Hydrogen Peroxide	Pink	4439	80093-964
Sodium Hydroxide	Pink	4440	80093-966
Calcium Chloride	Mirror	4441	80093-968
Cesium Chloride	Pink	4442	80093-970
Magnesium Chloride	Mirror	4443	80093-972
Lithium Chloride	Pink	4444	80093-974
Barium Chloride	Pink	4445	80093-976
Cobalt Chloride	Pink	4446	80093-978

Description	Color	Supplier No.	Cat. No.
Ferric Chloride	Pink	4447	80093-980
Strontium Chloride	Pink	4448	80093-982
Potassium Chloride	Pink	4449	80093-984
Potassium Bromide	Pink	4450	80093-986
Sodium Bromide	Pink	4451	80093-988
Potassium Iodide	Pink	4452	80093-990
Copper Sulfate (Concentrated)	Pink	4453	80093-992
Copper Sulfate (S.G.)	Pink	4454	80093-994
Magnesium Sulfate	Pink	4455	80093-996
Potassium Sulfate	Pink	4456	80093-998
Nickel Sulfate	Pink	4457	80094-000
Sodium Nitrate	Pink	4458	80094-002
Zinc Sulfate	Pink	4459	80094-004
Silver Nitrate	Pink	4460	80094-006
Sodium Nitrate	Pink	4461	80094-008
Potassium Carbonate	Pink	4462	80094-010
Sodium Carbonate	Pink	4463	80094-012
Sodium Bicarbonate	Pink	4464	80094-014
Sodium Tartrate	Pink	4465	80094-016
Potassium Oxalate	Pink	4466	80094-018
Potassium Chromate	Pink	4467	80094-020
Potassium Dichromate	Pink	4468	80094-022
Sodium Thiosulfate	Pink	4469	80094-024
Potassium Phosphate	Pink	4470	80094-026
Sodium Molybdate	Pink	4471	80094-028
Sodium Tungstate	Pink	4472	80094-030
Wine, T.A. 1990	Violet	4479	80094-032
Wine, T.A. 1971	Violet	4480	80094-034
Wine, KMW (or Babo)	Violet	4483	80094-036
Wine, Baumé	Violet	4484	80094-038
Polyvinyl Alcohol	Mirror	4485	80094-040
Wine, Oe (Ger), Brix	Violet	4486	80094-042
Wine, Oe (Oechsle), Brix	Violet	4487	80094-044
Propylene Glycol (°C Freezing Point)	Mirror	4488	80094-046
Propylene Glycol (°F Freezing Point)	Mirror	4489	80094-048
Ethylene Glycol (°C Freezing Point)	Mirror	4491	80094-050
Ethylene Glycol (°F Freezing Point)	Mirror	4492	80094-052

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Master Series Hand-Held Refractometers, ATAGO®

This compact, portable line of hand-held refractometers is set apart by its streamlined design and variety of measuring capabilities. The Master series is ideal for measuring Brix of fruit juices, soft drinks, sauces, soups, as well as water-soluble cutting oils, washing liquids, industrial liquids, and coolants. The sleek, well-balanced body design incorporates a smooth ABS resin-coated grip to help prevent contamination. Additionally, a unique sample stage structure allows for fast and easy sampling. All models feature a bright blue, easy-to-read scale.

The Master-[alpha] and Master-2[alpha] models feature an IP65 rating that enhances durability and simplifies cleanup procedures. These models are also equipped with Automatic Temperature Compensation from 10 to 30°C (50 to 86°F) for accurate measurements at any time regardless of environmental conditions.

The Master-T and Master-2T models also feature Automatic Temperature Compensation, but are not IP65 protected. These models provide a good alternative choice when the water resistant feature is not a priority.

The Master-M and Master-2M models are not equipped with Automatic Temperature Compensation or IP65 protection.

Ordering Information: Supplied with a one-year manufacturer's warranty.



Dimensions	3.3W x 3.3H x 20.4L cm (1 ⁵ / ₁₆ x 1 ⁵ / ₁₆ x 8)
Unit Weight	160 g (5.6 oz.)

Model	Accuracy	Brix Range	Resolution	Supplier No.	Cat. No.
Master-[alpha]	±0.2 %	0–33 %	0.20%	2311	89008-792
Master-2[alpha]	±0.2 %	28–62 %	0.20%	2321	89008-798

LAMBDA™ Bio/Bio+ and XLS/XLS+ Scanning UV/Vis Spectrophotometers, PerkinElmer®

Lightweight Bio and Bio+ spectrophotometers are specially designed for life science laboratories that require a dedicated instrument for the determination of nucleic acid purity and concentration, protein concentrations, and cell density measurements. Compact design features a large, intuitive full graphics display and has no moving parts for enhanced stability and reliability. Scan full spectra almost instantaneously. Full suite of stored life science methods. Xenon source has a typical lifetime of five years. Multiple language operation. Compatible with low volume cuvettes. USB output.

Bio models are designed for nucleic acid and protein determinations, cell density measurements, and more. Bio+ models have all of the features of Bio models plus routine assays, kinetics, rapid scanning, and concentration measurements.

Reliable and sensitive XLS and XLS+ scanning spectrophotometers are specially designed for academic and industrial laboratories that require a small footprint and a dedicated instrument for a wide range of applications. Compact design uses minimal bench space and has no moving parts for enhanced stability and reliability. Scan full spectra almost instantaneously and measure using 10, 20, or 40mm pathlength cells. Up to 90 methods may be stored. Xenon source has a typical lifetime of five years. Multiple language operation. USB output.

Model XLS is a 5nm spectrophotometer suitable for scanning, fixed wavelength studies, kinetics, and concentration measurements. Model XLS+ is a higher resolution (3nm bandwidth) version of Model XLS.

Data can be transferred to a computer using an optional SD memory card, USB PC connector, or wireless Bluetooth® module, or printed out using an optional integrated thermal printer.

Ordering Information: Printer utility and cable 97024-728 is supplied with Bio+ models.



Dimensions	34W x 33D x 17H cm (13 ³ / ₈ x 13 x 6 ⁵ / ₈ "
Photometric Reproducibility	+/- 0.002A at 0-0.5A, 546 nm
Stray Light	0.5% T at 220 and 340 nm
Wavelength Absorbance Range	0.3 to 2.5 A
Wavelength Accuracy	2 nm
Wavelength Range	190-1100 nm
Weight	<3.2kg (<7.1 lbs.)

Description	Bandwidth	Stored Methods	Supplier No.	Cat. No.
XLS+ Spectrophotometers				
Spectrophotometer	3 nm	90	L7110192	CA97024-668

Accessories			
Description	Supplier No.		Cat. No.
Printer Module	L7110230		CA97024-726
Print Utility and USB Cable	L7110231		CA97024-728
Bluetooth Module	L7110233		CA97024-730
SD Memory Card Module	L7110234		CA97024-732

BDH® ARISTAR® Multiple Element Sets

Use with ICP/MS, ICP/OES, DCP, GFAA, and AA. Standards are manufactured to meet detection limits in the low parts-per-billion (ppb) to parts-per-quadrillion (ppq) ranges. To ensure traceability and the highest accuracy, these standards are manufactured by an ISO accredited facility (Guide 9001:2000, 17025:1999, and Guide 34:2000). Raw materials are usually 5–9 pure and must pass an ICP-OES/ICP-MS impurity check. The final product is assayed by classical wet chemical methods — ICP/MS, ICP/OES, ICP, or IC — and a density check to ensure stated values. As certified reference materials (CRM), each standard includes a detailed ISO Guide 31 compliant certificate of analysis. All multiple element standards contain the specified number of analytes mixed in solution and come in 125mL bottles. For custom-made standards, contact your sales representative.

Ordering Information: Uranium is depleted. The isotopic abundance is on the certificate of analysis.



Description	Concentration	Matrix	Analytes in Mixture	Cat. No.
Rare Earth Metals	100 µg/mL	5% HNO ₃	Ce, Dy, Er, Eu, Gd, Ho, La, Lu, Nd, Pr, Sc, Sm, Tb, Th, Tm, U, Y, Yb	CA82025-926
Precious Metals	100 µg/mL	Dilute HCl	Au, Ir, Pd, Pt, Rh, Ru	CA82025-928
Alkali, Alkaline Earth, and Non-Transition Elements	100 µg/mL	Dilute HNO ₃	Al, As, Ba, Be, Bi, Ca, Cs, Ga, In, K, Li, Mg, Na, Rb, Se, Sr	CA82025-930
Fluoride Soluble Group	100 µg/mL	Dilute HNO ₃ /Trace HF	B, Ge, Hf, Mo, Nb, P, Re, S, Sb, Si, Sn, Ta, Ti, W, Zr	CA82025-932
Transition Elements	100 µg/mL	Dilute HNO ₃	Ag, Cd, Co, Cr, Cu, Fe, Hg, Mn, Ni, Pb, Tl, V, Zn	CA82025-934
Rare Earth Metals	10 µg/mL	3.5% HNO ₃	Ce, Dy, Er, Eu, Gd, Ho, La, Lu, Nd, Pr, Sc, Sm, Tb, Th, Tm, U, Y, Yb	CA82026-098
Precious Metals	10 µg/mL	Dilute HCl	Au, Ir, Pd, Pt, Re, Rh, Ru, Te	CA82026-100
Fluoride Soluble Group	10 µg/mL	Dilute HNO ₃ /Trace HF	Ge, Hf, Mo, Nb, Sn, Ta, Ti, W, Zr	CA82026-102
Plasma Common Elements, Hot	10 µg/mL	Dilute HNO ₃	As, B, Ba, Be, Bi, Cd, Ga, In, Pb, Sb, Se, Tl, V	CA82026-104
Plasma Common Elements, Cool	10 µg/mL	Dilute HNO ₃	Ag, Al, Ca, Co, Cr, Cs, Cu, Fe, Li, K, Mg, Mn, Na, Ni, Rb, Sr, Zn	CA82026-106
ICP-MS Elements	10 µg/mL	Dilute HNO ₃	Ag, Al, As, B, Ba, Be, Ca, Cd, Ce, Co, Cr, Cs, Cu, Dy, Er, Eu, Fe, Ga, Gd, Ho, K, La, Li, Lu, Mg, Mn, Na, Nd, Ni, P, Pb, Pr, Rb, S, Se, Sm, Sr, Th, Tl, U, V, Yb, Zn	CA82026-108
Refractory Elements	10 µg/mL	Dilute HNO ₃ /Trace HF	Ge, Hf, Mo, Nb, Sb, Si, Sn, Ta, Te, Ti, W, Zr	CA82026-110
Precious Metals	10 µg/mL	Dilute HCl	Au, Ir, Os, Pd, Pt, Re, Rh, Ru	CA82026-112
Internal Standard Elements	10 µg/mL	Dilute HNO ₃	Bi, In, 6Li, Sc, Tb, Y	CA82026-114



**Complex
Problems Require
Sophisticated
Solutions.**

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Together, We Enable Science.



BDH® ARISTAR® Single Element Standards for ICP

Use with ICP/MS, ICP/OES, DCP, GFAA, and AA. Standards are manufactured to meet detection limits in the low parts-per-billion (ppb) to parts-per-quadrillion (ppq) ranges. To ensure traceability and the highest accuracy, these standards are manufactured by an ISO accredited facility (Guide 9001:2000, 17025:1999, and Guide 34:2000). Raw materials are usually 5–9 pure and must pass an ICP-OES/ICP-MS impurity check. The final product is assayed by classical wet chemical methods — ICP/MS, ICP/OES, ICP, or IC — and a density check to ensure stated values. As certified reference materials (CRM), each standard includes a detailed ISO Guide 31 compliant certificate of analysis. All standards come in 125mL bottles. For custom-made standards, contact your sales representative. The lithium 6 is isotopically enhanced.



Description	Size	Concentration	Matrix	Cat. No.
Lithium 6	125 mL	1,000 µg/mL	Dilute HNO3	CA82025-936
Silver	125 mL	1,000 µg/mL	Dilute HNO3	CA82025-938
Aluminum	125 mL	1,000 µg/mL	Dilute HNO3	CA82025-940
Aluminum	125 mL	1,000 µg/mL	Dilute HCl	CA82025-942
Arsenic	125 mL	1,000 µg/mL	Dilute HNO3	CA82025-944
Gold	125 mL	1,000 µg/mL	Dilute HCl	CA82025-946
Gold	125 mL	1,000 µg/mL	Dilute HNO3	CA82025-948
Boron	125 mL	1,000 µg/mL	H2O	CA82025-950
Barium	125 mL	1,000 µg/mL	Dilute HNO3	CA82025-952
Beryllium	125 mL	1,000 µg/mL	Dilute HNO3	CA82025-954
Bismuth	125 mL	1,000 µg/mL	Dilute HNO3	CA82025-956
Carbon	125 mL	1,000 µg/mL	Dilute HNO3	CA82025-958
Calcium	125 mL	1,000 µg/mL	Dilute HNO3	CA82025-960
Cadmium	125 mL	1,000 µg/mL	Dilute HNO3	CA82025-962
Cerium	125 mL	1,000 µg/mL	Dilute HNO3	CA82025-964
Cobalt	125 mL	1,000 µg/mL	Dilute HNO3	CA82025-966
Chromium (+3)	125 mL	1,000 µg/mL	Dilute HNO3	CA82025-968
Chromium (+6)	125 mL	1,000 µg/mL	H2O	CA82025-970
Cesium	125 mL	1,000 µg/mL	Dilute HNO3	CA82025-972
Copper	125 mL	1,000 µg/mL	Dilute HNO3	CA82025-974
Dysprosium	125 mL	1,000 µg/mL	Dilute HNO3	CA82025-976
Erbium	125 mL	1,000 µg/mL	Dilute HNO3	CA82025-978
Europium	125 mL	1,000 µg/mL	Dilute HNO3	CA82025-980
Iron	125 mL	1,000 µg/mL	Dilute HNO3	CA82025-982
Gallium	125 mL	1,000 µg/mL	Dilute HNO3	CA82025-984
Gadolinium	125 mL	1,000 µg/mL	Dilute HNO3	CA82025-986
Germanium	125 mL	1,000 µg/mL	H2O/Trace HNO3/Trace HF	CA82025-988
Hafnium	125 mL	1,000 µg/mL	Dilute HNO3/Trace HF	CA82025-990
Mercury	125 mL	1,000 µg/mL	Dilute HNO3	CA82025-992
Holmium	125 mL	1,000 µg/mL	Dilute HNO3	CA82025-994
Indium	125 mL	1,000 µg/mL	Dilute HNO3	CA82025-996
Iridium	125 mL	1,000 µg/mL	Dilute HCl	CA82025-998
Potassium	125 mL	1,000 µg/mL	Dilute HNO3	CA82026-000
Lanthanum	125 mL	1,000 µg/mL	Dilute HNO3	CA82026-002
Lithium	125 mL	1,000 µg/mL	Dilute HNO3	CA82026-004
Lutetium	125 mL	1,000 µg/mL	Dilute HNO3	CA82026-006
Magnesium	125 mL	1,000 µg/mL	Dilute HNO3	CA82026-008
Manganese	125 mL	1,000 µg/mL	Dilute HNO3	CA82026-010
Molybdenum	125 mL	1,000 µg/mL	H2O/Trace NH4OH	CA82026-012
Sulfur as MSA	125 mL	1,000 µg/mL	H2O	CA82026-014
Sodium	125 mL	1,000 µg/mL	Dilute HNO3	CA82026-016
Niobium	125 mL	1,000 µg/mL	H2O/Trace HNO3/Trace HF	CA82026-018
Neodymium	125 mL	1,000 µg/mL	Dilute HNO3	CA82026-020
Nickel	125 mL	1,000 µg/mL	Dilute HNO3	CA82026-022
Osmium	125 mL	1,000 µg/mL	Dilute HCl	CA82026-024
Phosphorus	125 mL	1,000 µg/mL	H2O	CA82026-026
Lead	125 mL	1,000 µg/mL	Dilute HNO3	CA82026-028
Palladium	125 mL	1,000 µg/mL	Dilute HCl	CA82026-030
Palladium	125 mL	1,000 µg/mL	Dilute HNO3	CA82026-032
Praseodymium	125 mL	1,000 µg/mL	Dilute HNO3	CA82026-034
Platinum	125 mL	1,000 µg/mL	Dilute HCl	CA82026-036
Platinum	125 mL	1,000 µg/mL	Dilute HNO3/Trace HCl	CA82026-038
Rubidium	125 mL	1,000 µg/mL	Dilute HNO3	CA82026-040
Rhenium	125 mL	1,000 µg/mL	Dilute HNO3	CA82026-042
Rhodium	125 mL	1,000 µg/mL	Dilute HCl	CA82026-044

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Description	Size	Concentration	Matrix	Cat. No.
Ruthenium	125 mL	1,000 µg/mL	Dilute HCl	CA82026-046
Sulfur	125 mL	1,000 µg/mL	H2O	CA82026-048
Antimony	125 mL	1,000 µg/mL	Dilute Tartaric Acid	CA82026-050
Antimony	125 mL	1,000 µg/mL	Dilute HNO3/Trace HF	CA82026-052
Scandium	125 mL	1,000 µg/mL	Dilute HNO3	CA82026-054
Selenium	125 mL	1,000 µg/mL	Dilute HNO3	CA82026-056
Silicon	125 mL	1,000 µg/mL	H2O/Trace HNO3/Trace HF	CA82026-058
Samarium	125 mL	1,000 µg/mL	Dilute HNO3	CA82026-060
Tin	125 mL	1,000 µg/mL	H2O/Trace HNO3/Trace HF	CA82026-062
Tin	125 mL	1,000 µg/mL	Dilute HCl	CA82026-064
Strontium	125 mL	1,000 µg/mL	Dilute HNO3	CA82026-066
Tantalum	125 mL	1,000 µg/mL	Dilute HNO3/Trace HF	CA82026-068
Terbium	125 mL	1,000 µg/mL	Dilute HNO3	CA82026-070
Tellurium	125 mL	1,000 µg/mL	Dilute HCl	CA82026-072
Tellurium	125 mL	1,000 µg/mL	Dilute HNO3	CA82026-074
Thorium	125 mL	1,000 µg/mL	Dilute HNO3	CA82026-076
Titanium	125 mL	1,000 µg/mL	Dilute HNO3/Trace HF	CA82026-078
Thallium	125 mL	1,000 µg/mL	Dilute HNO3	CA82026-080
Thulium	125 mL	1,000 µg/mL	Dilute HNO3	CA82026-082
Uranium	125 mL	1,000 µg/mL	Dilute HNO3	CA82026-084
Vanadium	125 mL	1,000 µg/mL	Dilute HNO3	CA82026-086
Tungsten	125 mL	1,000 µg/mL	Dilute HNO3/Dilute HF	CA82026-088
Yttrium	125 mL	1,000 µg/mL	Dilute HNO3	CA82026-090
Ytterbium	125 mL	1,000 µg/mL	Dilute HNO3	CA82026-092
Zinc	125 mL	1,000 µg/mL	Dilute HNO3	CA82026-094
Zirconium	125 mL	1,000 µg/mL	H2O/Trace HF	CA82026-096
Aluminum	125 mL	100 µg/mL	Dilute HNO3	CA82026-120
Aluminum	125 mL	10 µg/mL	Dilute HNO3	CA82026-122
Arsenic	125 mL	100 µg/mL	Dilute HNO3	CA82026-124
Arsenic	125 mL	10 µg/mL	Dilute HNO3	CA82026-126
Barium	125 mL	100 µg/mL	Dilute HNO3	CA82026-132
Barium	125 mL	10 µg/mL	Dilute HNO3	CA82026-134
Beryllium	125 mL	100 µg/mL	Dilute HNO3	CA82026-136
Beryllium	125 mL	10 µg/mL	Dilute HNO3	CA82026-138
Bismuth	125 mL	100 µg/mL	Dilute HNO3	CA82026-140
Calcium	125 mL	100 µg/mL	Dilute HNO3	CA82026-144
Calcium	125 mL	10 µg/mL	Dilute HNO3	CA82026-146
Cadmium	125 mL	100 µg/mL	Dilute HNO3	CA82026-148
Cadmium	125 mL	10 µg/mL	Dilute HNO3	CA82026-150
Cobalt	125 mL	100 µg/mL	Dilute HNO3	CA82026-152
Cobalt	125 mL	10 µg/mL	Dilute HNO3	CA82026-154
Chromium (+3)	125 mL	100 µg/mL	Dilute HNO3	CA82026-156
Chromium (+3)	125 mL	10 µg/mL	Dilute HNO3	CA82026-158
Copper	125 mL	100 µg/mL	Dilute HNO3	CA82026-160
Copper	125 mL	10 µg/mL	Dilute HNO3	CA82026-162
Iron	125 mL	100 µg/mL	Dilute HNO3	CA82026-164
Iron	125 mL	10 µg/mL	Dilute HNO3	CA82026-166
Germanium	125 mL	100 µg/mL	H2O/Trace HNO3/Trace HF	CA82026-168
Mercury	125 mL	100 µg/mL	Dilute HCl	CA82026-172
Mercury	125 mL	10 µg/mL	Dilute HCl	CA82026-174
Indium	125 mL	100 µg/mL	Dilute HNO3	CA82026-180
Indium	125 mL	10 µg/mL	Dilute HNO3	CA82026-182
Potassium	125 mL	100 µg/mL	Dilute HNO3	CA82026-184
Potassium	125 mL	10 µg/mL	Dilute HNO3	CA82026-186
Lithium	125 mL	100 µg/mL	Dilute HNO3	CA82026-188
Lithium	125 mL	10 µg/mL	Dilute HNO3	CA82026-190
Magnesium	125 mL	100 µg/mL	Dilute HNO3	CA82026-192
Magnesium	125 mL	10 µg/mL	Dilute HNO3	CA82026-194
Manganese	125 mL	100 µg/mL	Dilute HNO3	CA82026-196
Manganese	125 mL	10 µg/mL	Dilute HNO3	CA82026-198
Molybdenum	125 mL	100 µg/mL	H2O/Trace NH4OH	CA82026-200
Molybdenum	125 mL	10 µg/mL	H2O/Trace NH4OH	CA82026-202
Sodium	125 mL	100 µg/mL	Dilute HNO3	CA82026-204
Sodium	125 mL	10 µg/mL	Dilute HNO3	CA82026-206
Nickel	125 mL	100 µg/mL	Dilute HNO3	CA82026-208
Nickel	125 mL	10 µg/mL	Dilute HNO3	CA82026-210

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Description	Size	Concentration	Matrix	Cat. No.
Lead	125 mL	100 µg/mL	Dilute HNO3	CA82026-212
Lead	125 mL	10 µg/mL	Dilute HNO3	CA82026-214
Rhodium	125 mL	10 µg/mL	Dilute HCl	CA82026-218
Antimony	125 mL	100 µg/mL	Dilute HNO3	CA82026-220
Antimony	125 mL	10 µg/mL	Dilute HNO3	CA82026-222
Scandium	125 mL	10 µg/mL	Dilute HNO3	CA82026-226
Selenium	125 mL	100 µg/mL	Dilute HNO3	CA82026-228
Tin	125 mL	100 µg/mL	H2O/Trace HNO3/Trace HF	CA82026-232
Tin	125 mL	10 µg/mL	H2O/Trace HNO3/Trace HF	CA82026-234
Strontium	125 mL	100 µg/mL	Dilute HNO3	CA82026-236
Strontium	125 mL	10 µg/mL	Dilute HNO3	CA82026-238
Terbium	125 mL	10 µg/mL	Dilute HNO3	CA82026-242
Titanium	125 mL	100 µg/mL	Dilute HNO3/Trace HF	CA82026-250
Titanium	125 mL	10 µg/mL	Dilute HNO3/Trace HF	CA82026-252
Thallium	125 mL	100 µg/mL	Dilute HNO3	CA82026-254
Uranium	125 mL	100 µg/mL	Dilute HNO3	CA82026-258
Uranium	125 mL	10 µg/mL	Dilute HNO3	CA82026-260
Vanadium	125 mL	100 µg/mL	Dilute HNO3	CA82026-262
Yttrium	125 mL	100 µg/mL	Dilute HNO3	CA82026-266
Yttrium	125 mL	10 µg/mL	Dilute HNO3	CA82026-268
Zinc	125 mL	100 µg/mL	Dilute HNO3	CA82026-270
Zinc	125 mL	10 µg/mL	Dilute HNO3	CA82026-272
Silver	125 mL	100 µg/mL	Dilute HNO3	CA82026-402
Silver	125 mL	10 µg/mL	Dilute HNO3	CA82026-404

FLEXAR™ HPLC Systems, Manual and Autosampler Injection, PerkinElmer®

HPLC systems feature flexibility, reliability, low cost of ownership, and a choice of Brownlee™ columns and LC consumables. Chromera® software features a powerful and easy CDS workstation, uncompromised instrument control, and a streamlined and immediate user interface. Autosamplers have exceptionally short cycle times and low carryover.

System 1 package features a one-solvent manual injection HPLC system with UV/Vis detector. Package includes ISO LC pump platform, UV/Vis detector, manual injector kit, software kit, converter, and column.

System 2 package can accommodate up to two solvents and features a manual injection HPLC system with UV/Vis detector. Package includes binary LC pump platform, UV/Vis detector, manual injector kit, software kit, converter, and column.

System 3 package can accommodate up to four solvents and features an autosampler HPLC system with UV/Vis detector. Package includes Quaternary LC platform, LC autosampler, UV/Vis detector, software kit, converter, and column.

System 4 package is designed for research and development applications. It accommodates up to four solvents and features an autosampler HPLC system with photodiode array detector. Package includes Quaternary LC platform, LC autosampler, PDA detector, software kit, converter, and column.

Ordering Information: Installation services are required for both the HPLC system (89173-556) and software kit (89173-558). All four system packages include a Chromera analytical software kit (v3.0), converter (USB/8 port RS232/NT), and general-purpose, reversed-phase analytical C18 column.



I.D. x L	4.6 x 150 mm (analytical C18 column)
Particle Size	5 µm (analytical C18 column)

Description	Supplier No.	Cat. No.
Installation Service, HPLC System	N0207305	CA89173-556
System 3 Package	N2980622	CA89176-138
System 4 Package	N2980623	CA89176-140

MagniSolv™ deuterated solvents provide:

- Reliable results in the NMR-spectra by excellent chemical purity and highest isotopic enrichment.
- Reliable deuteration degrees.
- Low residual water content.
- Determination of water content in two ways

MagniSolv™ Acetone-D6 deuteration degree min. 99.9% for NMR spectroscopy

Size	Packaging	Supplier No.	Cat. No.
10 mL	Glass Bottle with Septum	1.00021.0010	CA1.00021.0010
25 mL	Glass Bottle	1.00021.0025	CA1.00021.0025
100 mL	Glass Bottle	1.00021.0100	CA1.00021.0100

MagniSolv™ Acetonitrile-D3 deuteration degree min. 99.8% for NMR spectroscopy

Size	Packaging	Supplier No.	Cat. No.
10 mL	septum glass bottle	1.00220.0010	CA1.00220.0010

MagniSolv™ Benzene-D6 deuteration degree min. 99.96% for NMR spectroscopy

Size	Packaging	Supplier No.	Cat. No.
10 mL	Glass Bottle with Septum	1.01766.0010	CA1.01766.0010

MagniSolv™ Benzene-D6 deuteration degree min. 99.6% for NMR spectroscopy

Size	Packaging	Supplier No.	Cat. No.
10 mL	septum glass bottle	1.01789.0010	CA1.01789.0010
100 mL	glass bottle	1.01789.0100	CA1.01789.0100

MagniSolv™ Chloroform-D1 deuteration degree min. 99.96% for NMR spectroscopy

Size	Packaging	Supplier No.	Cat. No.
10 mL	Septum-Sealed Glass Bottle	1.02446.0010	CA1.02446.0010
25 mL	Glass Bottle	1.02446.0025	CA1.02446.0025
100 mL	Glass Bottle	1.02446.0100	CA1.02446.0100

MagniSolv™ Chloroform-D1 deuteration degree min. 99.8% for NMR spectroscopy

Size	Packaging	Supplier No.	Cat. No.
25 mL	Glass Bottle	1.02450.0025	CA1.02450.0025
100 mL	Glass Bottle	1.02450.0100	CA1.02450.0100

MagniSolv™ Acetonitrile-D3 deuteration degree min. 99% for NMR spectroscopy

Size	Packaging	Supplier No.	Cat. No.
10 mL	septum glass bottle	1.02904.0010	CA1.02904.0010

MagniSolv™ Chloroform-D1 deuteration degree min. 99.8% for NMR spectroscopy (stabilized with silver)

Size	Packaging	Supplier No.	Cat. No.
25 mL	Glass Bottle	1.03420.0025	CA1.03420.0025
100 mL	Glass Bottle	1.03420.0100	CA1.03420.0100

MagniSolv™ Dimethyl sulfoxide-D6 deuteration degree min. 99.8% for NMR spectroscopy

Size	Packaging	Supplier No.	Cat. No.
10 mL	Septum-Sealed Glass Bottle	1.03424.0010	CA1.03424.0010
25 mL	Glass Bottle	1.03424.0025	CA1.03424.0025
100 mL	Glass Bottle	1.03424.0100	CA1.03424.0100

MagniSolv™ Deuterium oxide deuteration degree min. 99.96% for NMR spectroscopy

Size	Packaging	Supplier No.	Cat. No.
10 mL	septum glass bottle	1.03428.0010	CA1.03428.0010
100 mL		1.03428.0100	CA1.03428.0100

MagniSolv™ Dimethyl sulfoxide-D6 deuteration degree min. 99.96% for NMR spectroscopy

Size	Packaging	Supplier No.	Cat. No.
10 mL	Septum-Sealed Glass Bottle	1.03562.0010	CA1.03562.0010
25 mL	Glass Bottle	1.03562.0025	CA1.03562.0025

MagniSolv™ Dichloromethane-D2 deuteration degree min. 99.96% for NMR spectroscopy

Size	Packaging	Supplier No.	Cat. No.
10 mL	Septum-Sealed Glass Bottle	1.04200.0010	CA1.04200.0010

MagniSolv™ Methanol-D4 deuteration degree min. 99.8 % for NMR spectroscopy

Size	Packaging	Supplier No.	Cat. No.
10 mL	septum glass bottle	1.06028.0010	CA1.06028.0010
25 mL	glass bottle	1.06028.0025	CA1.06028.0025
100 mL	glass bottle	1.06028.0100	CA1.06028.0100

MagniSolv™ Pyridine-D5 deuteration degree min 99.8% for NMR spectroscopy

Size	Packaging	Supplier No.	Cat. No.
10 mL	Septum-Sealed Glass Bottle	1.07475.0010	CA1.07475.0010

MagniSolv™ Tetrahydrofuran-D8 deuteration degree min 99.5% for NMR spectroscopy

Size	Packaging	Supplier No.	Cat. No.
10 mL	septum glass bottle	1.13364.0010	CA1.13364.0010

MagniSolv™ Dichloromethane-D2 deuteration degree min. 99.8% for NMR spectroscopy

Size	Packaging	Supplier No.	Cat. No.
10 mL	Septum-Sealed Glass Bottle	1.13720.0010	CA1.13720.0010

MagniSolv™ p-Xylene-D10 deuteration degree min. 99.5% for NMR spectroscopy

Size	Packaging	Supplier No.	Cat. No.
10 mL	glass bottle	8.15005.0010	CA8.15005.0010

MagniSolv™ tert-Butanol-D1 deuteration degree min. 99% for NMR spectroscopy

Size	Packaging	Supplier No.	Cat. No.
25 mL	glass bottle	8.15014.0025	CA8.15014.0025

MagniSolv™ Acetic acid-D1 deuteration degree min. 99.5% for NMR spectroscopy

Size	Packaging	Supplier No.	Cat. No.
25 mL	Glass Bottle	8.15035.0025	CA8.15035.0025

MagniSolv™ Acetic acid-D4 deuteration degree min. 99.5% for NMR spectroscopy

Size	Packaging	Supplier No.	Cat. No.
10 mL	glass bottle	8.15036.0010	CA8.15036.0010

MagniSolv™ 2-Propanol-D1 deuteration degree min. 98% for NMR spectroscopy

Size	Packaging	Supplier No.	Cat. No.
25 mL	glass bottle	8.15044.0025	CA8.15044.0025

MagniSolv™ Methanol-D1 deuteration degree min. 99.5% for NMR spectroscopy

Size	Packaging	Supplier No.	Cat. No.
100 mL	glass bottle	8.15051.0100	CA8.15051.0100

MagniSolv™ Styrene-D8 deuteration degree min. 98% for NMR spectroscopy

Size	Packaging	Supplier No.	Cat. No.
10 mL	glass bottle	8.15061.0010	CA8.15061.0010

MagniSolv™ Formic acid-D2 deuteration degree min. 99.5% for NMR spectroscopy

Solubility	(20 °C) soluble
Melting Point	5.9 °C
Molar Mass	48.04 g/mol
Boiling Point	101 °C
Flash Point	69 °C
Explosion Limit	10 - 45.5 %(V)
Density	1.27 g/cm3 (20 °C)
Ignition Point	520 °C
Hazard Class	8
Hazard Class Description	Corrosive Material

Size	Packaging	Supplier No.	Cat. No.
10 mL	Glass Ampoule	1.13365.0010	CA1.13365.0010



Complex Problems Require Sophisticated Solutions.

Differentiated Services. Complete Solutions.

Our customers have been challenged with finding the answers that help improve lives. Our mission is to enable this by eliminating the process complexities and identifying product and service solutions that help labs and production facilities work better, faster, and smarter.

Through our global reach and team of knowledgeable associates, we proudly excel in delivering innovative, flexible, and customized service and technology solutions that power productivity, improve quality, safety and regulatory compliance, and deliver laboratory cost savings.

Differentiated Services delivered by a team of people focused on your success.
Together, We Enable Science.



Chromolith® HPLC Columns, EMD Millipore

Suitable for high-performance separation of acidic, basic, nonpolar, and metal chelating compounds. Ideal as a first line routine column in the laboratory.

Chromolith® column speed comes from a highly porous monolithic silica gel rod clad to the column shell, which allows for high flow rates over a very large surface area. Superior, reproducible separations occur in less time than with packed-particle columns.

CapRod® capillary columns can achieve separations at 1 to 3µL/min., rather than 200 to 400nL/min. for conventional media on a standard nano-LC capillary. FastGradient columns offer ultra-high performance combined with low operating pressure, and are ideal for applications in pharmaceutical, chemical, food, and academic labs. Flash and SpeedROD columns are ideal for high-speed separations of simple mixtures. Ideal for use in research laboratories, especially those specializing in combinatorial chemistry.

Performance columns provide rapid, high-quality separation of complex mixtures. Performance validation kit **48219-742** is ideal for use in quality control or validation laboratories. Kit contains three HPLC columns, each derived from a different batch in order to compare the batch-to-batch reproducibility and quality.

Guard cartridges are suitable for reversed-phase chromatography because they are all chemically modified in terms of carrying hydrophobic n-octadecyl groups on the surface of the monolithic silica rod. Guard cartridge kits consist of three pieces of guard cartridges, a cartridge holder, and a wrench. The column coupler features two 10-32 male connectors for female inlets of column.



Macropore Size	2 µm
Micropore Size	13 nm
Pore Volume	1 mL/g
Silica Type	High Purity
Surface Area	300 m ² /g

Description	I.D. x L	Supplier No.	Cat. No.
Performance RP-18E Column	4.6 x 100 mm	1.02129.0001	CA48219-468
SpeedROD RP-18E Column	4.6 x 50 mm	1.51450.0001	CA48219-490
Flash RP-18E Column	4.6 x 25 mm	1.51463.0001	CA48219-740
Performance RP-8E Column	4.6 x 100 mm	1.51468.0001	CA48219-878
Performance Si (Silica Gel) Column	4.6 x 100 mm	1.51465.0001	CA48219-880
Performance RP-18E Column	3 x 100 mm	1.52001.0001	CA82031-440
FastGradient RP-18E Column	2 x 50 mm	1.52007.0001	CA97007-930

Accessories			
Description	Supplier No.	Cat. No.	
Guard Cartridge, RP-18E, Set of 3	1.51451.0001	CA48219-736	
Guard Cartridge, RP-18E, Set of 3	1.51452.0001	CA48219-738	
Performance RP-18E Validation Kit	1.51466.0001	CA48219-742	
Column Coupler	1.51467.0001	CA48219-744	
Guard Cartridge Kit, RP-18E	1.51470.0001	CA48219-746	
Guard Cartridge Kit, RP-18E	1.51471.0001	CA48219-748	

Empore® Extraction Disks, 3M™

Ideal for achieving faster extractions with lower solvent usage and better sample concentrations. Disks eliminate emulsion formation and provide excellent reproducibility. Can be used for extracting semi-volatile organics, polar compounds, ionic compounds, explosives, and pesticides.

Disks are thin, particle-loaded membranes, with the particles embedded in a stable, inert matrix of PTFE fibrils.

Approved for use with numerous EPA methods, including 525.2 and 1664 for oil and grease detection.



Description	Size	Supplier No.	Cat. No.
Oil and Grease Disks	90 mm	2370	CA55004-050
Oil and Grease Disks	47 mm	2270	CA55004-053
Anion-SR Disks	47 mm	2252	CA55004-074
Standard Reversed Phase Styrene Divinyl Benzene (SDB-XC) Disks	47 mm	2240	CA55004-086
Octadecyl (C18) Disks	90 mm	2315	CA55004-096
Octadecyl (C18) Disks	47 mm	2215	CA55004-098

Ion Pairing Reagents, EMD Millipore

Used to separate pharmaceutical compounds from their metabolites. Compounds can be separated on a reversed phase column with the addition of an ion pairing reagent to the mobile phase. The type of ion pairing reagent and its concentration give different selectivities.



Description	Size	Supplier No.	Cat. No.
Decane Sulfonic Acid Sodium Salt	25 g	DX0101-2	CADX0101-2
Decane Sulfonic Acid Sodium Salt	100 g	DX0101-3	CADX0101-3
Dodecane Sulfonic Acid Sodium Salt	25 g	DX0102-2	CADX0102-2
Dodecane Sulfonic Acid Sodium Salt	100 g	DX0102-3	CADX0102-3
Heptane Sulfonic Acid Sodium Salt	25 g	HX0101-2	CAHX0101-2
Heptane Sulfonic Acid Sodium Salt	100 g	HX0101-3	CAHX0101-3
Hexane Sulfonic Acid Sodium Salt	25 g	HX0102-2	CAHX0102-2
Hexane Sulfonic Acid Sodium Salt	100 g	HX0102-3	CAHX0102-3
Octane Sulfonic Acid Sodium Salt	25 g	OX0101-2	CAOX0101-2
Octane Sulfonic Acid Sodium Salt	100 g	OX0101-3	CAOX0101-3
Octane Sulfonic Acid Sodium Salt	500 g	OX0101-4	CAOX0101-4
Pentane Sulfonic Acid Sodium Salt	25 g	PX0101-2	CAPX0101-2
Pentane Sulfonic Acid Sodium Salt	100 g	PX0101-3	CAPX0101-3

Disposable BAKERBOND® SPE Columns, J.T. Baker®

Disposable polypropylene columns are prepacked with selective reversed phase, polar, and ion exchange organosilanes bonded to 40µm, 60Å, and 275Å silica gel absorbents and size exclusion gels. The highly surface-active sorbents, contained by two 20µm polyethylene frits, provide high capacity. This configuration allows extraction of compounds from sample solution volumes of a few hundred microliters to several milliliters. Wide mouth column **JT7020-13** is used for robotic systems or large sample volumes.



J.T. BAKER® BRAND SPEEDISK COLUMNS AND DISCS - ASSORTED STYLES

Description	Sorbent	Volume	Sorbent Weight	Supplier No.	Cat. No.
Reversed Phase	Octadecyl	1 mL	100 mg	7020-01	CAJT7020-1
Reversed Phase	Octadecyl	6 mL	1 g	7020-27	CAJT7020-27
Reversed Phase	Octadecyl	3 mL	200 mg	7020-02	CAJT7020-2
Reversed Phase	Octadecyl	3 mL	500 mg	7020-03	CAJT7020-3
Reversed Phase	Octadecyl	6 mL	500 mg	7020-06	CAJT7020-6
Reversed Phase	Octadecyl	6 mL	1 g	7020-07	CAJT7020-7
Normal Phase	Cyano	3 mL	500 mg	7021-03	CAJT7021-3
Normal Phase	Cyano	6 mL	1 g	7021-07	CAJT7021-7
Adsorption	Silica Gel	6 mL	500 mg	7086-26	CAJT7086-26
Adsorption	Silica Gel	3 mL	500 mg	7086-03	CAJT7086-3
Adsorption	Silica Gel	6 mL	500 mg	7086-06	CAJT7086-6
Adsorption	Silica Gel	6 mL	1 g	7086-07	CAJT7086-7
Reversed Phase	Octyl	3 mL	200 mg	7087-02	CAJT7087-2
Reversed Phase	Octyl	3 mL	500 mg	7087-03	CAJT7087-3
Reversed Phase	Octyl	6 mL	500 mg	7087-06	CAJT7087-6
Anion Exchange	Quaternary Amine	3 mL	500 mg	7091-03	CAJT7091-3
Normal Phase	Diol	3 mL	500 mg	7094-03	CAJT7094-3
Reversed Phase	Phenyl	3 mL	500 mg	7095-03	CAJT7095-3
Cation Exchange	Carboxylic Acid	3 mL	500 mg	7211-03	CAJT7211-3
Adsorption	Florisil*	6 mL	1 g	7213-07	CAJT7213-7
Adsorption	Alumina, Neutral	6 mL	1 g	7214-07	CAJT7214-7
Biochromatography	Butyl	6 mL	500 mg	7216-06	CAJT7216-6
Biochromatography	CBX	6 mL	500 mg	7217-06	CAJT7217-6
Biochromatography	PEI	6 mL	500 mg	7218-06	CAJT7218-6

The VWR Collection is the Easy Choice

Whether you're in a lab or production environment, you face the challenge of balancing the need to stretch your dollars with the need for quality and innovation. The VWR Collection helps you do both. With a wide range of equipment, and supplies, there's a VWR Collection product for your lab...and your budget. See ca.vwr.com for more information.



LiChrolut® Polypropylene Extraction Columns, EMD Millipore

For nonpolar extraction, choose RP-18, RP-18E (Endcapped), or CN (Cyano) columns. Typical sample matrix: aqueous buffer solution. Typical sample substances: aromatic ring systems and compounds with alkyl chains. Typical elution solvent: acetonitrile, methanol, and ethyl acetate. Endcapped cartridges have a bonded phase that is reacted with trimethylchlorosilane to cover silanols not previously reacted with the initial bonding reagent.

For polar extraction, choose CN (Cyano) or Si (Silica Gel) columns. Typical sample matrix: hexane, oils, and chlorinated hydrocarbons. Typical sample substances: hydroxyl groups, amines, and compounds with hetero-atoms (S, N, O). Typical elution solvent: methanol and 2-propanol.

For nonpolar extraction on a polymer phase, choose EN columns. Typical sample matrix: drinking water, ground water, surface water, and body fluids. Typical sample substances: polar contaminants, pesticides, phenols, explosives, anilines, and pharmaceuticals. Typical elution solvent: ethyl acetate, methanol, acetonitrile, and methanol (1:1).

For anion exchange extraction, choose NH2 (weak) columns. Typical sample matrix: methanolic/aqueous buffer with low ionic strength, 2 pH units over pK value of the sample substance. Typical sample substances: anions, carboxylic acids, sulfonic acids, and phosphates. Typical elution solvent: aqueous buffer of high ionic strength (0.1 mol/L), 2 pH units over pK value of the sample substance.

For cation exchange extraction choose SCX (strong) columns. Typical sample matrix: methanolic/aqueous buffer with low ionic strength, 2 pH units under pK value of the sample substance. Typical sample substances: cations, amines, and pyrimidines. Typical elution solvent: aqueous buffer of high ionic strength (0.1 mol/L), 2 pH units over pK value of the sample substance.

For mixed mode extraction, choose TSC columns. Typical sample matrix: body fluids. Typical sample substances: cationic and neutral analytes. Typical elution solvent: chloroform-acetone, NH3-ethyl-acetate, and NH3-methanol.



Sorbent	Volume	Particle Size	Sorbent Weight	Supplier No.	Cat. No.
RP-18	3 mL	40–63 µm	200 mg	1.02014.0001	CA1.02014.0001
Si (Silica Gel)	3 mL	40–63 µm	200 mg	1.02021.0001	CA1.02021.0001
CN (Cyano)	3 mL	40–63 µm	200 mg	1.19698.0001	CA48219-200
TSC (Tox Screening Cation)	3 mL	40–63 µm	300 mg	1.19767.0001	CA48219-204
RP-18E	3 mL	40–63 µm	200 mg	1.19847.0001	CA48219-216
RP-18E	3 mL	40–63 µm	500 mg	1.19849.0001	CA48219-220
RP-18	1 mL	40–63 µm	100 mg	1.19855.0001	CA48219-231
EN	3 mL	40–120 µm	200 mg	1.19870.0001	CA48219-232
SCX (Strong Cation Exchange)	3 mL	40–63 µm	200 mg	1.02016.0001	CA48219-236
SCX (Strong Cation Exchange)	3 mL	40–63 µm	500 mg	1.02022.0001	CA48219-242
RP-18	3 mL	40–63 µm	500 mg	1.02023.0001	CA48219-244
Si (Silica Gel)	3 mL	40–63 µm	500 mg	1.02024.0001	CA48219-246

VWR® COLLECTION

VWR® Standard Opening Crimp-Top Vials

Vials have a maximum fill volume of 1.8 mL, and are manufactured from inert, 33 expansion borosilicate glass. Fully compatible with Agilent® 7673 and 1100 series autosamplers. Vials are provided in clear-pack trays. Aluminum seals measure 11 mm.

Description	Capacity	Cat. No.
Amber Vial	2 mL	46610-734
Clear Vial	2 mL	66020-953
Clear Vial with ID Patch	2 mL	82028-402
Amber Vial with ID Patch	2 mL	82028-404
Accessories		
Description		Cat. No.
11 mm Aluminum Seal with Red PTFE/Synthetic White Silicone Septa		46610-714
11 mm Aluminum Seal with Red PTFE/White Silicone/Red PTFE Septa		46610-716
11 mm Aluminum Seal with Clear PTFE/Natural Red Rubber Septa		46610-744
11 mm Aluminum Seal with Clear PTFE/Synthetic Red Rubber Septa		46610-754
0.15 mL Glass Conical Insert with Poly-Support Spring		46610-702





VWR® Versatile Dual Crimp-Top/Snap-Cap Vials

Vials feature a versatile neck that allows closure by either snap-cap seals or aluminum crimp seals. Vials have 40% wider openings than standard vials to reduce risk of needle damage. Manufactured from clear or amber borosilicate glass or polypropylene.

Vials do not come with caps. Caps are available separately. Convenience kits include 2 mL vials and unassembled snap caps.



Description	Volume	Cat. No.
Amber Glass I-D™ Fused Insert Vial	2 mL	46610-732
Clear Glass I-D™ Fused Insert Vial	2 mL	66009-822
Clear Polypropylene Vial, Precision Mandrel Base	250 µL	82028-412
Amber Glass I-D™ Vial, Flat Base	2 mL	82028-416
Amber Glass I-D™ Fused Insert Vial	250 µL	82028-410
Clear Glass I-D™ Vial, Flat Base	2 mL	82028-414
Clear Glass I-D™ Fused Insert Vial	250 µL	82028-408
Convenience Kit with Clear Vials and Natural PTFE/Red Rubber Septa	2 mL	66009-868
Convenience Kit with Clear Vials and Natural PTFE/Silicone Septa	2 mL	66009-872

Accessories	
Description	Cat. No.
Snap Cap with PTFE/Red Rubber Septa	46610-718
Snap Cap with PTFE/Natural Silicone Septa	46610-720
Snap Cap with Pre-Slit PTFE/Natural Silicone Septa	82028-418
11 mm Aluminum Seal with Red PTFE/Synthetic White Silicone Septa	46610-714
11 mm Aluminum Seal with Red PTFE/White Silicone/Red PTFE Septa	46610-716
11 mm Aluminum Seal with Clear PTFE/Natural Red Rubber Septa	46610-744
11 mm Aluminum Seal with Clear PTFE/Synthetic Red Rubber Septa	46610-754



Complex
Problems Require
Sophisticated
Solutions.

Product Choice Simplified.

Our customers have been challenged with finding the answers that help improve lives. Our mission is to enable this by making your product choice easy. We eliminate the process complexities and offer high quality product and service solutions that help labs and production facilities work better, faster, and smarter.

Through our global reach and team of knowledgeable associates we proudly excel in delivering solutions that improve productivity, accelerate discovery, and encourage innovation.

Product Choice delivered by a team of people focused on your success.
Together, We Enable Science.



VWR® 9-425 Screw-Thread Vials

Ideal for use with Agilent® 7673 and 1100 autosamplers, as well as all other 12x32mm vial format autosampler units. Vials are specifically designed with a crimp cap profile for robotic arm autosamplers but have easy-to-use screw-thread caps. Kits include preassembled polypropylene screw closures with your choice of PTFE/red rubber, PTFE/silicone/PTFE, or PTFE/silicone septa. Vials are manufactured from Type 1 borosilicate glass and have a maximum fill volume of 1.8mL. Certified vial kits are tested and certified to meet or exceed up to 17 critical performance parameters; certificate enclosed with kit.



Ordering Information: Preassembled kits are supplied in one-compartment trays. Unassembled kits are supplied in two-compartment benchtop storage trays. Loose caps and inserts come packaged in poly bags.

Cap Size	9-425
O.D. x L	12 x 32mm

Description	Capacity	Cap Material	Color	Septa Type	Cat. No.
Vials Only					
Screw Thread Glass Vials	2 mL		Clear		46610-722
Convenience Kits					
Convenience Kit, Screw Thread Glass Vials	2 mL	Black PP	Clear	Red PTFE/White Silicone	66009-854
Vials Only					
Screw Thread Glass Vials with ID Patch	2 mL		Clear		46610-724
Convenience Kits					
Convenience Kit, Screw Thread Glass Vials	2 mL	Black PP	Clear	Ivory PTFE/Red Rubber	66009-858
Vials Only					
Screw Thread Glass Vials with ID Patch	2 mL		Amber		46610-726
Convenience Kits					
Convenience Kit, Screw Thread Glass Vials	2 mL	Blue PP	Clear	Ivory PTFE/Red Rubber	66009-862
Preassembled Vial Kits					
Pre-Assembled Vial Kit, Screw Thread Glass Vials	2 mL	Black PP	Clear	Ivory PTFE/Red Rubber	66009-852
Pre-Assembled Vial Kit, Screw Thread Glass Vials	2 mL	Blue PP	Clear	Ivory PTFE/Red Rubber	66009-856
Pre-Assembled Vial Kit, Screw Thread Glass Vials	2 mL	Black PP	Clear	Red PTFE/White Silicone	66009-860
Certified Convenience Kits					
Convenience Kit, Certified, Screw Thread Glass Vials	2 mL	Black PP	Clear	Bonded Red PTFE/White Silicone	82030-970
Convenience Kit, Certified, Screw Thread Glass Vials with ID Patch	2 mL	Black PP	Amber	Bonded Red PTFE/White Silicone	82030-974
Convenience Kit, Certified, Screw Thread Glass Vials	2 mL	Black PP	Clear	Bonded Clear PTFE/Clear Silicone Pre-Slit	82030-972
Convenience Kit, Certified, Screw Thread Glass Vials with ID Patch	2 mL	Black PP	Amber	Bonded Clear PTFE/Clear Silicone Pre-Slit	82030-976

Accessories

Description	Cat. No.
9-425 Polypropylene Cap with PTFE/Red Rubber Septa	46610-708
9-425 Polypropylene Cap with PTFE/Silicone/PTFE Septa	46610-710
9-425 Polypropylene Cap with Red PTFE/Silicone Septa	46610-712
9-425 Polypropylene Cap with Pre-Slit Red PTFE/White Silicone Septa	82028-424
0.25 mL Glass Conical Insert with Poly-Support Spring	46610-762

16 mm Screw-Thread Headspace Vials, MicroLiter

These headspace vials offer excellent performance. Every glass vial is precleaned and packaged in an ISO Class 7 (Class 10,000) cleanroom, in a box bearing the Class 10K seal. The result is a vial that exceeds most OEM requirements at no additional cost. Cleaner vials improve performance by eliminating almost all particulates.

Vials are made from Type 1 borosilicate glass and work well on PerkinElmer®, Agilent™, CTC Analytics, Shimadzu™, Tekmar®, and other headspace autosamplers. They meet strict tolerances set by the manufacturer of the instrument.

Caps are made of blue polypropylene.



Description	Capacity	O.D. x L	Septa Type	Supplier No.	Cat. No.
Clear Vial	10 mL	22 x 46 mm	—	16-1000	97047-784
Clear Vial	20 mL	22 x 75 mm	—	16-2000	97047-786
Clear Vial, Silanized	20 mL	22 x 75 mm	—	16-2000-S	97047-788
Amber Vial	10 mL	22 x 75 mm	—	16-6100	97047-792
Amber Vial	20 mL	22 x 46 mm	—	16-6000	97047-790
Magnetic Cap	—	—	PTFE/Butyl	16-0030M	97047-772
Magnetic Cap	—	—	PTFE/Silicone	16-0050M	97047-776
Magnetic Cap	—	—	Viton®	16-0080M	97047-782

HC-75 Calcium Form Cation Exchange HPLC Columns, Hamilton Company

Hamilton Company offers one of the most comprehensive selections of chromatography columns in the industry. Each column is manufactured under rigorous criteria and tested for resolution and retention time accuracy.

This product employs polymeric cross-linked soft-gel materials for cation, ligand exchange separation of carbohydrates.

Benefits & Features:

- Separate Mono and Disaccharides
- Separate oligomers from DP1 to DP8
- Compatible with RI detectors
- 9 µm particle size
- Multiple column internal diameters available
- Stainless Steel or PEEK hardware available

HC-75 gel-type cation exchange columns are especially useful for determining ethanol in fermentation broths and for separating sugars and sugar alcohols in food samples like com syrup, chewing gum sweeteners, and fruit juices.

HC-75 columns separate compounds through size exclusion and ligand exchange. Ligand exchange dominates in the more highly cross-linked HC-75.

The higher carbohydrate oligomers elute first; the smaller di- and monosaccharides elute later.



Buffer Strength	Water
Compound Classification	Carbohydrates
Exchange Capacity	5 meq/gm
Hardware Material	Stainless Steel
Maximum Pressure	400 psi
Mobile Phase Limits	100% Water 0-40% Acetonitrile
Packing Material	PSDVB/Sulfonic Acid
Pore size	Gel-Type
Temperature Limit	25-90°C

Description	I.D. x L	Particle Size	Supplier No.	Cat. No.
Hamilton HC-75 Calcium Form Cation Exchange HPLC Column	4.1 x 250 mm	10 µm	79431	21493-003
Hamilton HC-75 Calcium Form Cation Exchange HPLC Column	7.8 x 305 mm	9 µm	79436	21493-006

Acetone HPLC

HPLC, Meets ACS Specifications, Meets Reagent Specifications for testing USP/NF monographs



Assay (GC, corrected for water content).....	99.5% min
Aldehyde (as HCHO).....	0.002% max
Appearance.....	Clear liquid, free from particulates
Color (APHA).....	10 max
Filtered through 0.2 µm filter.....	To pass test
Form.....	Liquid
Infrared spectrum.....	Conforms to standard
Isopropyl alcohol.....	0.05% max
Methanol.....	0.05% max
Residue after evaporation.....	5ppm max
Solubility in water.....	To pass test
Substances reducing permanganate.....	To pass test
Titration acid.....	0.0003meq/g max
Titration base.....	0.0006meq/g max
UV Abs. at 330 nm.....	1.00AU max
UV Abs. at 340 nm.....	0.10AU max
UV Abs. at 350 nm.....	0.02AU max
UV Abs. at 400 nm.....	0.01AU max
UV Cut-off.....	330nm max
Water (H ₂ O).....	0.5% max

Size	Packaging	Supplier No.	Cat. No.
4 L	Glass Bottle	AX0115-1	CAAX0115-1
1 L	Glass Bottle	AX0115-6	CAAX0115-6
4 L	Poly-Coated Glass Bottle	AX0115P-1	CAAX0115P-1
1 L	Poly-Coated Glass Bottle	AX0115P-6	CAAX0115P-6

OmniSolv® Acetonitrile Gradient Grade

For spectrophotometry and chromatography. UV cutoff 189nm. Gradient controlled to remove lipophilic interferences at 254 and 210nm. Certificate of lot analysis on label.



Assay (GC).....	99.9% min
Color (APHA).....	10 max
Filtered through 0.2 µm filter.....	To pass test
Fluorescence (as quinine base).....	300ppt max
Form.....	Clear liquid
Gradient at 210 nm.....	0.002AU max
Gradient at 254 nm.....	0.0003AU max
Identity (IR-spectrum).....	Conforms
Residue after evaporation.....	1 ppm max
Titration acid.....	8.0µeq/g max
Titration base.....	0.16µeq/g max
UV Abs. at 189 nm.....	1.00AU max
UV Abs. at 195 nm.....	0.15AU max
UV Abs. at 210 nm.....	0.03AU max
UV Abs. at 230 nm.....	0.005AU max
UV Abs. at 250 nm.....	0.005AU max
UV Abs. at 270 nm.....	0.005AU max
UV Cut-off.....	189nm max
Water (H ₂ O).....	0.02% max

Size	Packaging	Supplier No.	Cat. No.
4 L	Glass Bottle	AX0142-1	CAAX0142-1
1 L	Glass Bottle	AX0142-6	CAAX0142-6

Acetonitrile HPLC

Meets ACS Specifications, Meets Reagent Specifications for testing USP/NF monographs



Appearance.....
Clear liquid, free from particulates
Assay (GC)99.8% min
Color (APHA)10 max
Residue after evaporation1 ppm max
Filtered through 0.2 µm filter.....To pass test
Gradient at 254 nm.....0.005AU max
Infrared spectrum.....Conforms to standard
Titrate acid0.008meq/g max
Titrate base0.0006meq/g max
UV Abs. at 190 nm1.00AU max
UV Abs. at 220 nm0.05AU max
UV Abs. at 254 - 400 nm0.01AU max
UV Cut-off190nm max
Water (H₂O).....0.10% max

Size	Packaging	Supplier No.	Cat. No.
4 L	Glass Bottle	AX0145-1	CAAX0145-1
18.9 L	EMD ReCycler	AX0145-31	CAAX0145-31
4 L	Poly-Coated Glass Bottle	AX0145P-1	CAAX0145P-1
1 L	Poly-Coated Glass Bottle	AX0145P-6	CA-AX0145P-6

OmniSolv® Acetonitrile Non UV, For GC

For GC and residue analysis. Not optically transparent in the UV region. Certificate of Analysis on label.



Assay (GC)
99.9% min
Capillary ECD responsive substances (as PCNB).....2ng/L max
Color (APHA)10 max
Filtered through 0.2 µm filter.....To pass test
FormClear liquid
Infrared spectrum.....Conforms to standard
Residue after evaporation1 ppm max
Titrate acid8.3µeq/g max
Titrate base0.6µeq/g max
Water (H₂O).....0.10% max

Size	Packaging	Supplier No.	Cat. No.
4 L	Glass Bottle	AX0155-1	CAAX0155-1
1 L	Glass Bottle	AX0155-6	CAAX0155-6

OmniSolv® Benzene

For spectrophotometry and chromatography. UV cutoff 280nm. Lot analysis on label.



Assay (GC)
99.7% min
Color (APHA)10 max
Filtered through 0.2 µm filter.....To pass test
FormClear liquid
Infrared spectrum.....Conforms to standard
Residue after evaporation2ppm max
UV Abs. at 280 nm1.00AU max
UV Abs. at 290 nm0.15AU max
UV Abs. at 300 nm0.05AU max
UV Abs. at 330 nm0.01AU max
UV Abs. at 350 nm0.005AU max
UV Cut-off280nm max
Water (H₂O).....0.03% max

Size	Packaging	Supplier No.	Cat. No.
4 L	Glass Bottle	BX0212-1	CABX0212-1
1 L	Glass Bottle	BX0212-6	CABX0212-6

OmniSolv® Butyl Acetate

For HPLC, spectrophotometry, and chromatography. UV cutoff 254nm. Filtered to remove particulate matter. Lot analysis on label.



Assay (GC)99.0% min
Color (APHA)10 max
Filtered through 0.2 µm filter.....To pass test
Fluorescence (as quinine base)500ppt max
FormClear liquid
Infrared spectrum.....Conforms to standard
Residue after evaporation5ppm max
UV Abs. at 254 nm1.00AU max
UV Abs. at 259 nm0.30AU max
UV Abs. at 275 nm0.05AU max
UV Abs. at 300 nm0.02AU max
UV Abs. at 320 nm0.01AU max
UV Cut-off254nm max
Water (H₂O).....0.05% max

Size	Packaging	Supplier No.	Cat. No.
1 L	Glass Bottle	BX1732-6	CABX1732-6

Acetic Acid, Glacial HPLC

Meets ACS Specifications



Assay (GC)99.7% min
Acetic anhydride [(CH₃CO)₂O]0.01% max
Chloride (Cl)0.4ppm max
Color (APHA)10 max
Copper (Cu)0.1ppm max
Dilution testTo pass test
FormClear liquid
Gradient at 254 nm.....0.005AU max
Gradient at 280 nm.....0.003AU max
Gradient Suitability for LC-MS.....Conforms
Heavy metals (as Pb)0.5ppm max
Iron (Fe)0.2ppm max
MS Purity (as Reserpine)Conforms
Nickel (Ni)0.1ppm max
Residue after evaporation5ppm max
Substances reducing dichromate.....To pass test
Substances reducing permanganate.....To pass test
Sulfate (SO₄)0.4ppm max
Titrate base0.0004meq/g max
UV Absorbance (1 cm, 255 nm).....1.0AU max
UV Absorbance (1 cm, 280 nm).....0.05AU max
UV Absorbance (1 cm, 350 nm).....0.02AU max
Water (H₂O).....0.1% max

Size	Packaging	Supplier No.	Cat. No.
2.5 L	Poly-Coated Glass Bottle	AX0074-2	CAAX0074-2
500 mL	Poly-Coated Glass Bottle	AX0074-6	CAAX0074-6

OmniSolv® HR-GC Acetone

For chromatography, residue analysis, and spectrophotometry. Filtered through 0.2µm filter. Lot analysis and chromatograms on label.

Impurities by Capillary GC:

Assay (GC)	99.7% min
Appearance.....	Clear liquid, free from particulates
Cap. ECD responsive substances as PCNB (peak)	2ng/L max
Cap. ECD responsive substances as PCNB (total).....	50ng/L max
Cap. FID responsive substances as decane (peak).....	1µg/L max
Cap. FID responsive substances as decane (total).....	10µg/L max
Color (APHA)	5 max
Filtered through 0.2 µm filter.....	To pass test
Residue after evaporation	1 ppm max
Titration acid	0.3µeq/g max
Water (H ₂ O).....	0.5% max

Size	Packaging	Supplier No.	Cat. No.
4 L	Glass Bottle	AX0110-1	CAAX0110-1

OmniSolv® Acetone

For spectrophotometry, chromatography, and residue analysis. Conforms to IR-spectrum identity. Filtered through 0.2µm filter. Certificate of lot analysis on label. Flammable with toxic effects.

Assay (GC, corrected for water content).....	99.5% min
Capillary ECD responsive substances (as PCNB).....	2ng/L max
Capillary FID responsive substances (as decane)	3µg/L max
Color (APHA)	10 max
Residue after evaporation.....	1 ppm max
Filtered through 0.2 µm filter.....	To pass test
Fluorescence (as quinine base).....	1.0ppb max
Infrared spectrum.....	To Pass Test
Titration acid	0.3µeq/g max
UV Abs. at 329 nm	1.00AU max
UV Abs. at 330 nm	0.80AU max
UV Abs. at 335 nm	0.30AU max
UV Abs. at 340 nm	0.06AU max
UV Abs. at 350 nm	0.005AU max
UV Abs. at 400 nm	0.005AU max
UV Cut-off	329nm max
Water (H ₂ O).....	0.5% max

Size	Packaging	Supplier No.	Cat. No.
4 L	Glass Bottle	AX0116-1	CAAX0116-1
1 L	Glass Bottle	AX0116-6	CAAX0116-6
4 L	Poly-Coated Glass Bottle	AX0116P-1	CAAX0116P-1



OmniSolv® LC-MS Acetonitrile

Clear liquid. For use in HPLC and spectrophotometry. Filtered through a 0.2µm element for purity. UV cutoff at 190nm.

Assay (GC)	99.9% min
Color (APHA)	10APHA max
Filtered through 0.2 µm filter.....	To pass test
Fluorescence as quinine at 254 nm.....	1 ppb max
Fluorescence as quinine at 365 nm.....	1 ppb max
Form	Clear liquid
Gradient at 210 nm.....	2 mAU max
Gradient at 254 nm.....	0.3mAU max
Identity (IR-spectrum).....	Conforms
Metals, suitable for LC/MS	To pass test
MS purity, ESI(+), largest response as reserpine	50ppb max
MS purity, ESI(-), largest response, p-nitrophenol	50ppb max
Residue after evaporation	1 ppm max
Titration acid	1µeq/g max
Titration base	0.5µeq/g max
UV Abs. at 200 nm	0.1AU max
UV Abs. at 210 nm	0.04AU max
UV Abs. at 220 nm	0.02AU max
UV Abs. at 230 nm	0.01AU max
UV Abs. at 240 nm	0.01AU max
UV Abs. at 250 nm	0.01AU max
UV Abs. at 270 nm	0.01AU max
UV Abs. at 400-280 nm.....	0.005AU max
UV Cut-off	190nm max
Water (H ₂ O).....	0.02% max

Size	Packaging	Supplier No.	Cat. No.
4 L	Glass Bottle	AX0156-1	CAAX0156-1
1 L	Glass Bottle	AX0156-6	CAAX0156-6



1-Butanol, OmniSolv®.

For HPLC, spectrophotometry, and chromatography. UV cutoff 215nm. Lot analysis on label.

Size	Packaging	Supplier No.	Cat. No.
4 L	Glass Bottle	BX1777-1	CABX1777-1
1 L	Glass Bottle	BX1777-6	CABX1777-6



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Cyclohexane, ACS Grade.

Clear liquid.

Color (APHA)	10 max.
Water	0.02% max.
Substances darkened by sulfuric acid.....	Pass
Residue after evaporation	0.002% max.
Assay by GC analysis	99% min.
Appearance.....	Pass
Meets ACS specifications for general use.....	Pass

Size	Packaging	Cat. No.
19 L	Steel Can	CABDH1111-19L
4 L	Glass Bottle	CABDH1111-4LG



OmniSolv® Carbon Disulfide

Meets Reagent Specifications for testing USP/NF monographs



Assay (GC)	99.9% min
Color (APHA)	10 max
Filtered through 0.2 µm filter	To pass test
Form	Clear liquid
Infrared spectrum	Conforms to standard
Residue after evaporation	5ppm max
UV Abs. at 382 nm	1.00AU max
UV Abs. at 388 nm	0.50AU max
UV Abs. at 403 nm	0.10AU max
UV Abs. at 410 nm	0.05AU max
UV Abs. at 500 nm	0.005AU max
UV Cut-off	382nm max
Water (H ₂ O)	0.03% max

Size	Packaging	Supplier No.	Cat. No.
5 pt.	Poly-Coated Glass Bottle	CX0396-3	CACX0396-3
500 mL	Poly-Coated Glass Bottle	CX0396-6	CACX0396-6

Chloroform, HPLC Stabilized

HPLC, Meets ACS Specifications, Meets Reagent Specifications for testing USP/NF monographs



Assay (GC)	99.8% min
Acetone and Aldehydes (about 0.005%)	To pass test
Acid and chloride	To pass test
Appearance	Clear liquid, free from particulates
Color (APHA)	10 max
Filtered through 0.2 µm filter	To pass test
Free chlorine (Cl)	To pass test
Infrared spectrum	Conforms to standard
Lead (Pb)	0.05ppm max
Residue after evaporation	5ppm max
Suitability for dithizone tests	To pass test
UV Abs. at 245 nm	1.00AU max
UV Abs. at 255 nm	0.25AU max
UV Abs. at 260 nm	0.15AU max
UV Abs. at 270 nm	0.05AU max
UV Abs. at 290 - 400 nm	0.01AU max
UV Cut-off	245nm max
Water (H ₂ O)	0.05% max

Size	Packaging	Supplier No.	Cat. No.
4 L	Glass Bottle	CX1050-1	CACX1050-1
4 L	Poly-Coated Glass Bottle	CX1050P-1	CACX1050P-1
1 L	Poly-Coated Glass Bottle	CX1050P-6	CACX1050P-6

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OmniSolv® Chloroform Stabilized

For spectrophotometry, HPLC, GC, and residue analysis. Stabilized with amylene. UV cutoff 245nm. Certificate of Analysis on label.



Assay (GC)	99.9% min
Capillary ECD responsive substances (as PCNB)	2ng/L max
Color (APHA)	10 max
Filtered through 0.2 µm filter	To pass test
Fluorescence (as quinine base)	250ppt max
Form	Clear liquid
Free chlorine (Cl)	To pass test
Identity (IR-spectrum)	Conforms
Residue after evaporation	1ppm max
Titrate acid	0.2µeq/g max
UV Abs. at 245 nm	1.00AU max
UV Abs. at 250 nm	0.30AU max
UV Abs. at 260 nm	0.04AU max
UV Abs. at 270 nm	0.005AU max
UV Abs. at 300 nm	0.005AU max
UV Cut-off	245nm max
Water (H ₂ O)	0.01% max

Size	Packaging	Supplier No.	Cat. No.
4 L	Glass Bottle	CX1054-1	CACX1054-1
1 L	Glass Bottle	CX1054-6	CACX1054-6

Chloroform HPLC Stabilized with Ethanol

HPLC, Meets ACS Specifications, Meets Reagent Specifications for testing USP/NF monographs



Assay (CHCl ₃ + C ₂ H ₅ OH)	99.8% min
Acetone and Aldehydes (about 0.005%)	To pass test
Acid and chloride	To pass test
Appearance	Clear liquid, free from particulates
Color (APHA)	10 max
Density at 25°C	1.471-1.476g/mL
Ethanol	0.7-1.0% (v/v)
Filtered through 0.2 µm filter	To pass test
Fluorescence (as quinine base)	1.0ppb max
Free chlorine (Cl)	To pass test
Infrared spectrum	Conforms to standard
Lead (Pb)	0.05ppm max
Refractive index (n _D 20/D)	1.442-1.446
Residue after evaporation	2ppm max
Substances darkened by sulfuric acid	To pass test
Suitability for dithizone tests	To pass test
UV Abs. at 245 nm	1.00AU max
UV Abs. at 255 nm	0.25AU max
UV Abs. at 260 nm	0.15AU max
UV Abs. at 270 nm	0.05AU max
UV Abs. at 290 - 400 nm	0.01AU max
UV Cut-off	244nm max
Water (H ₂ O)	0.01% max

Size	Packaging	Supplier No.	Cat. No.
4 L	Glass Bottle	CX1058-1	CACX1058-1
1 L	Glass Bottle	CX1058-6	CACX1058-6
4 L	Poly-Coated Glass Bottle	CX1058P-1	CACX1058P-1

OmniSolv® Cyclohexane

For spectrophotometry, chromatography, and residue analysis. UV cutoff 200nm. Certificate of Analysis on label.



Assay (GC)	99.0% min
Capillary ECD responsive substances (as PCNB)	5ng/L max
Color (APHA)	10 max
Filtered through 0.2 µm filter	To pass test
Fluorescence (as quinine base)	250ppt max
Form	Clear liquid
Infrared spectrum	Conforms to standard
Residue after evaporation	1 ppm max
UV Abs. at 200 nm	1.00AU max
UV Abs. at 210 nm	0.50AU max
UV Abs. at 220 nm	0.20AU max
UV Abs. at 230 nm	0.10AU max
UV Abs. at 240 nm	0.05AU max
UV Abs. at 250 nm	0.01AU max
UV Abs. at 260 nm	0.01AU max
UV Abs. at 270 nm	0.005AU max
UV Cut-off	200nm max
Water (H ₂ O)	0.01% max

Size	Packaging	Supplier No.	Cat. No.
4 L	Glass Bottle	CX2286-1	CACX2286-1
1 L	Glass Bottle	CX2286-6	CACX2286-6

Dichloromethane, ACS Grade Stabilized

Clear liquid. Contains cyclohexene as a preservative.



Color (APHA)	10 max.
Water	0.02% max.
Titration acid	0.3 µeq/g max.
Residue after evaporation	0.002% max.
Meets ACS specifications for general use	Pass
Free Halogens	Pass
Assay by GC analysis	99.5% min.
Appearance	Pass

Size	Packaging	Cat. No.
4 L	Glass Bottle	CABDH1113-4LG
19 L	Steel Can	CABDH1113-19L
204 L	Steel Drum	CABDH1113-204L

OmniSolv® Cyclopentane

For spectrophotometry, liquid chromatography, and residue analysis. UV cutoff 198nm. Filtered through a 0.2µm element. Lot analysis on label.



Assay (2,2-Dimethylbutane)	15.0% max
Assay (Cyclopentane)	85.0% min
Assay (n-Pentane)	3.0% max
Assay (Total)	99.8% min
Capillary ECD responsive substances (as PCNB)	5ng/L max
Color (APHA)	10 max
Filtered through 0.2 µm filter	To pass test
Fluorescence (as quinine base)	500ppt max
Form	Clear liquid
Infrared spectrum	Conforms to standard
Residue after evaporation	1 ppm max
UV Abs. at 198 nm	1.00AU max
UV Abs. at 210 nm	0.50AU max
UV Abs. at 220 nm	0.10AU max
UV Abs. at 230 nm	0.01AU max
UV Cut-off	198nm max
Water (H ₂ O)	0.02% max

Size	Packaging	Supplier No.	Cat. No.
4 L	Glass Bottle	CX2414-1	CACX2414-1
1 L	Glass Bottle	CX2414-6	CACX2414-6

Dimethyl Sulfoxide, ACS Grade.



Assay by GC analysis	99.9% min.
Meets ACS specifications for general use	Pass
Residue after evaporation	0.01% max.
Titration acid	1 µeq/g max.
Water	0.1% max.

Size	Packaging	Cat. No.
1 L	Poly Bottle	CABDH1115-1LP
4 L	Poly Bottle	CABDH1115-4LP

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N,N-Dimethylformamide, ACS Grade.

Clear liquid.



Assay (by GC)	99.8% min.
Color (APHA)	15 max.
Residue after Evaporation	0.005% max.
Titration Acid	0.5 µEq/g max.
Titration Base	3 µEq/g max.
Water	0.15% max.

Size	Packaging	Cat. No.
19 L	Steel Can	CABDH1117-19L
4 L	Glass Bottle	CABDH1117-4LG
4 L	Poly Bottle	CABDH1117-4LP

N,N-Dimethylformamide, Production Grade.

Low water. Low amine content.



Water	0.03% max.
Amines (as dimethylamine).....	10 ppm max.
GC analysis	99.5% min.
Low water content	Pass

Size	Packaging	Cat. No.
19 L	Steel Can	CABDH1119-19L

OmniSolv® 1,2-Dichloroethane

For spectrophotometry, chromatography, and residue analysis. UV cutoff 228nm. Filtered through a 0.2µm filter. Lot analysis on label.



Assay (GC)	99.0% min
Color (APHA)	10 max
Filtered through 0.2 µm filter.....	To pass test
Fluorescence (as quinine base).....	500ppt max
Form	Clear liquid
Free halogens.....	To pass test
Infrared spectrum.....	Conforms
Residue after evaporation	1 ppm max
Titration acid	0.3µeq/g max
UV Abs. at 230 nm	1.00AU max
UV Abs. at 240 nm	0.30AU max
UV Abs. at 250 nm	0.10AU max
UV Abs. at 300 nm	0.005AU max
UV Abs. at 400 nm	0.005AU max
UV Cut-off	230nm max
Water (H ₂ O).....	0.02% max

Size	Packaging	Supplier No.	Cat. No.
1 L	Glass Bottle	DX0796-6	CADX0796-6
4 L	Poly-Coated Glass Bottle	DX0796P-1	CADX0796P-1

OmniSolv® Dichloromethane stabilized

For spectrophotometry, gas chromatography, HPLC, and residue analysis. UV cutoff 231nm. Lot analysis on label.



Assay (GC)	99.9% min
Capillary ECD responsive substances (as PCNB).....	2ng/L max
Capillary FID responsive substances (as decane)	3µg/L max
Color (APHA)	10 max
Filtered through 0.2 µm filter.....	To pass test
Fluorescence (as quinine base).....	500ppt max
Form	Clear liquid
Free halogens.....	To pass test
Identity (IR-spectrum).....	Conforms
Residue after evaporation	1 ppm max
Titration acid	0.2µeq/g max
UV Abs. at 231 nm	1.00AU max
UV Abs. at 235 nm	0.40AU max
UV Abs. at 240 nm	0.20AU max
UV Abs. at 250 nm	0.01AU max
UV Abs. at 260 nm	0.005AU max
UV Cut-off	231nm max
Water (H ₂ O).....	0.005% max

Size	Packaging	Supplier No.	Cat. No.
4 L	Glass Bottle	DX0831-1	CADX0831-1
1 L	Glass Bottle	DX0831-6	CADX0831-6

Dichloromethane, Stabilized, OmniSolv®. HR-GC Grade stabilized



For high resolution gas chromatography. Lot analysis and chromatograms on label.

Assay (by GC)	99.9% min.
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Size	Packaging	Supplier No.	Cat. No.
4 L	Glass Bottle	DX0837-1	CADX0837-1

Dichloromethane, HPLC stabilized



HPLC, Meets ACS Specifications, Meets Reagent Specifications for testing USP/NF monographs

Assay (GC)	99.8% min
Appearance.....	Clear liquid, free from particulates
Color (APHA)	10 max
Filtered through 0.2 µm filter.....	To pass test
Free halogens.....	To pass test
Infrared spectrum.....	Conforms to standard
Residue after evaporation	5 ppm max
Titration acid	0.0003meq/g max
UV Abs. at 235 nm	1.00AU max
UV Abs. at 240 nm	0.35AU max
UV Abs. at 250 nm	0.10AU max
UV Abs. at 260 nm	0.04AU max
UV Abs. at 270 nm	0.01AU max
UV Abs. at 300 nm	0.01AU max
UV Abs. at 350 nm	0.01AU max
UV Cut-off.....	235nm max
Water (H ₂ O).....	0.02% max

Size	Packaging	Supplier No.	Cat. No.
4 L	Glass Bottle	DX0838-1	CADX0838-1
1 L	Glass Bottle	DX0838-6	CADX0838-6
4 L	Poly-Coated Glass Bottle	DX0838P-1	CADX0838P-1

OmniSolv® p-Dioxane



For spectrophotometry and chromatography. UV cutoff 215nm. Certificate of Analysis on label.

Expiration date.....	
Exp 12 months from mfg date	
Assay (GC)	99.9% min
Boiling range.....	101-102°C
Filtered through 0.2 µm filter.....	To pass test
Peroxide (as H ₂ O ₂).....	2mg/L max
Refractive index (n 20/D)	1.4206-1.4226
Residue after evaporation	1mg/L max
UV Abs. at 215 nm	1.00AU max
UV Abs. at 250 nm	0.300AU max
UV Abs. at 300 nm	0.020AU max
UV Abs. at 350 nm	0.005AU max
UV Abs. at 400 nm	0.005AU max
UV Cut-off.....	215nm max
Water (H ₂ O).....	0.05% max

Size	Packaging	Supplier No.	Cat. No.
4 L	Glass Bottle	DX2091-1	CADX2091-1
1 L	Glass Bottle	DX2091-6	CADX2091-6

OmniSolv® Methylsulfoxide

Clear liquid. For HPLC, gas chromatography, and spectrophotometry. The infrared spectrum conforms to the standard. Filtered through a 0.2µm element. UV cutoff 263nm. Soluble in water. Certificate of Analysis on label. Flammable and toxic effects.



Assay (GC)	99.9% min
Color (APHA)	10 max
Residue after evaporation	5 ppm max
Filtered through 0.2 µm filter	To pass test
Form	Clear liquid
Infrared spectrum	Conforms to standard
UV Abs. at 263 nm	1.000AU max
UV Abs. at 270 nm	0.400AU max
UV Abs. at 275 nm	0.250AU max
UV Abs. at 280 nm	0.200AU max
UV Abs. at 335 nm	0.020AU max
UV Abs. at 350-400 nm	0.010AU max
Water (H ₂ O)	0.05% max

Size	Packaging	Supplier No.	Cat. No.
4 L	Glass Bottle	MX1456-1	CAMX1456-1
1 L	Poly-Coated Glass Bottle	MX1456P-6	CAMX1456P-6

Ether, Stabilized. ACS Grade. Stabilized

Suitable for organic synthesis, cleaning, and prep scale synthesis. Contains ~1ppm BHT as preservative.



Color (APHA)	10 max.
Water	0.03% max.
Titration acid	0.2 µeq/g max.
Residue after evaporation	0.001% max.
Peroxide (as H ₂ O ₂)	1 ppm max.
Contains BHT preservative	Pass
Carbonyl (as HCHO)	0.001% max.
Assay by GC analysis	98% min.
Alcohol (CH ₃ CH ₂ OH)	Pass
Meets ACS specifications for general use	Pass

Size	Packaging	Cat. No.
19 L	Steel Can	CABDH1121-19L
1 L	Poly-Coated Glass Bottle	CABDH1121-1LPC
4 L	Poly-Coated Glass Bottle	CABDH1121-4LPC

Ethyl Acetate, ACS Grade.



Water	0.2% max.
Titration acid	0.9 µeq/g max.
Substances darkened by sulfuric acid	Pass
Residue after evaporation	0.003% max.
Meets ACS specifications for general use	Pass
Color (APHA)	10 max.
Assay by GC analysis	99.5% Min

Size	Packaging	Cat. No.
19 L	Steel Can	CABDH1123-19L
4 L	Glass Bottle	CABDH1123-4LG
4 L	Poly Bottle	CABDH1123-4LP

Ethylene Glycol, Reagent Grade.

Clear, colorless liquid.



Appearance	Pass
Water	0.2% max.
Assay by GC analysis	99% min.
Color (APHA)	10 max.

Size	Packaging	Cat. No.
1 L	Poly Bottle	CABDH1125-1LP
4 L	Glass Bottle	CABDH1125-4LG
4 L	Poly Bottle	CABDH1125-4LP

Ether, OmniSolv®.

Clear liquid. Suitable for residue analysis, HPLC, and spectrophotometry.



Size	Packaging	Supplier No.	Cat. No.
4 L	Poly-Coated Glass Bottle	EX0182-1	CAEX0182-1

OmniSolv® Ethyl Acetate

For spectrophotometry, chromatography, and residue analysis. UV cutoff 254nm. Certificate of Analysis on label.



Assay (GC)	99.9% min
Capillary ECD responsive substances (as PCNB)	2ng/L max
Color (APHA)	10 max
Filtered through 0.2 µm filter	To pass test
Fluorescence (as quinine base)	250ppt max
Form	Clear liquid
Identity (IR-spectrum)	Conforms
Residue after evaporation	1 ppm max
Titration acid	0.8µeq/g max
UV Abs. at 254 nm	1.00AU max
UV Abs. at 255 nm	0.80AU max
UV Abs. at 257 nm	0.35AU max
UV Abs. at 265 nm	0.02AU max
UV Abs. at 270 nm	0.01AU max
UV Abs. at 300 nm	0.005AU max
UV Cut-off	254nm max
Water (H ₂ O)	0.02% max

Size	Packaging	Supplier No.	Cat. No.
4 L	Glass Bottle	EX0241-1	CAEX0241-1
1 L	Glass Bottle	EX0241-6	CAEX0241-6

Ethyl Acetate, HPLC

HPLC, Meets ACS Specifications, Meets Reagent Specifications for testing USP/NF monographs



Assay (GC)	99.8% min
Appearance	Clear liquid, free from particulates
Color (APHA)	10 max
Filtered through 0.2 µm filter	To pass test
Form	Liquid
Infrared spectrum	Conforms to standard
Residue after evaporation	5ppm max
Substances darkened by sulfuric acid	To pass test
Titration acid	0.0009meq/g max
UV Abs. at 255 nm	1.00AU max
UV Abs. at 257 nm	0.50AU max
UV Abs. at 263 nm	0.10AU max
UV Abs. at 275 nm	0.05AU max
UV Abs. at 300 - 400	0.01AU max
UV Cut-off	255nm max
Water (H ₂ O)	0.05% max

Size	Packaging	Supplier No.	Cat. No.
4 L	Glass Bottle	EX0245-1	CAEX0245-1
4 L	Poly-Coated Glass Bottle	EX0245P-1	CAEX0245P-1

Water, ASTM Type II.

Deionized



Meets the specifications of ASTM Type II Water as described in ASTM D 1193: Standard Specifications of Reagent Grade Water

Pass	
Total silica (SiO ₂)	3 µg/L max.
Total organic carbon	50 µg/L max.
Electrical resistivity (25°C)	1.0 mohm/cm min.
Electrical conductance (25°C)	1.0 µS/cm max.
Chloride (Cl)	5 µg/L Max
Sodium (Na)	5 µg/L max.

Size	Packaging	Supplier No.	Cat. No.
1 L	Poly Bottle	PL366-1P	CABDH1168-1LP
4 L	Poly Bottle	PL366-4P	CABDH1168-4LP
5 gal.	Cubitainer®	PL366-5G	CABDH1168-5GL

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OmniSolv® LC-MS Water

Clear liquid. For use in HPLC gradient analysis, GC, and spectrophotometry. Filtered through a 0.2µm element for purity.



Expiration date	Exp 12 months from mfg date
Filtered through 0.2 µm filter	To pass test
Fluorescence as quinine at 254 nm	1ppb max
Fluorescence as quinine at 365 nm	1ppb max
Gradient at 210 nm	0.002AU max
Gradient at 254 nm	0.0005AU max
Metals, suitable for LC/MS	To pass test
MS purity, ESI(+), largest response as reserpine	50ppb max
MS purity, ESI(-), largest response, p-nitrophenol	50ppb max
Residue after evaporation	1 ppm max
UV Abs. at 200 nm	0.01AU max
UV Abs. at 210 nm	0.01AU max
UV Abs. at 220 nm	0.01AU max
UV Abs. at 230 nm	0.01AU max
UV Abs. at 240 nm	0.01AU max
UV Abs. at 250 nm	0.005AU max
UV Abs. at 270 nm	0.005AU max
UV Abs. at 400-280 nm	0.005AU max

Size	Packaging	Supplier No.	Cat. No.
4 L	Glass Bottle	WX0001-1	CAWX0001-1
1 L	Glass Bottle	WX0001-6	CAWX0001-6

OmniSolv® Water, Gradient Grade

Meets Reagent Specifications for testing USP/NF monographs



Expiration date	Exp 12 months from mfg date
Color (APHA)	10 max
Filtered through 0.2 µm filter	To pass test
Fluorescence (as quinine base)	100ppt max
Form	Clear liquid
Gradient at 210 nm	0.002AU max
Gradient at 254 nm	0.0005AU max
Odor	None
Residue after evaporation	1ppm max
Specific conductance	2µmho/cm max
Total purgeable organics	5ppb max
UV Abs. at 190 nm	0.010AU max
UV Abs. at 200 nm	0.010AU max
UV Abs. at 210 nm	0.010AU max
UV Abs. at 220 nm	0.010AU max
UV Abs. at 230 nm	0.010AU max
UV Abs. at 240 nm	0.010AU max
UV Abs. at 250 nm	0.005AU max
UV Abs. at 280 nm	0.005AU max

Size	Packaging	Supplier No.	Cat. No.
4 L	Glass Bottle	WX0004-1	CAWX0004-1
1 L	Glass Bottle	WX0004-6	CAWX0004-6
4 L	Poly-Coated Glass Bottle	WX0004P-1	CAWX0004P-1

Water, HPLC Grade.

Expiration dated.



Size	Packaging	Supplier No.	Cat. No.
4 L	Glass Bottle	WX0008-1	CAWX0008-1

Acetonitrile/Formic Acid 0.1% Mobile Phase



Assay (HCOOH).....	0.095-0.105% (v/v)
Color (APHA).....	10 max
Density at 25°C.....	Determine
Filtered through 0.2 µm filter.....	To pass test
Form.....	Clear liquid
Gradient at 280 nm.....	0.005AU max
Residue after evaporation.....	5 ppm max
UV Abs. at 230 nm.....	1.00AU max
UV Abs. at 240 nm.....	0.50AU max
UV Abs. at 250 nm.....	0.05AU max
UV Abs. at 280 nm and higher.....	0.05AU max

Size	Packaging	Supplier No.	Cat. No.
4 L	Poly-Coated Glass Bottle	FX0437P-1	CAFX0437P-1

Acetonitrile/Formic Acid 0.05% Mobile Phase



Assay (HCOOH).....	0.045-0.055% (v/v)
Color (APHA).....	10 max
Density at 25°C.....	Determine
Filtered through 0.2 µm filter.....	To pass test
Form.....	Clear liquid
Gradient at 280 nm.....	0.005AU max
Residue after evaporation.....	5 ppm max
UV Abs. at 230 nm.....	1.00AU max
UV Abs. at 240 nm.....	0.50AU max
UV Abs. at 250 nm.....	0.05AU max
UV Abs. at 280 nm and higher.....	0.05AU max

Size	Packaging	Supplier No.	Cat. No.
4 L	Poly-Coated Glass Bottle	FX0438P-1	CAFX0438P-1

Glycerol

Clear liquid. Suitable for organic synthesis, cleaning, and prep scale synthesis.



Color (APHA).....	20 max.
Sulfates.....	20 ppm max.
Specific gravity (25°C/25°C).....	1.2613
Residue after Ignition.....	0.01% max.
Water.....	0.3% max.
Id. by FTIR.....	Pass
Fatty acids and esters.....	Pass
Chlorinated compounds.....	30 ppm max.
Chlorides.....	10 ppm max.
Assay.....	99.7% min.
Appearance.....	Pass
Heavy metals (as Pb).....	5 ppm max.

Size	Packaging	Cat. No.
19 L	Steel Can	CABDH1172-19L
1 L	Poly Bottle	CABDH1172-1LP
4 L	Glass Bottle	CABDH1172-4LG
4 L	Poly Bottle	CABDH1172-4LP

Heptane, Reagent Grade.

Clear liquid.



Assay by GC analysis (n-heptane).....	99% min.
Water.....	0.01% max.
Residue after evaporation.....	0.001% max.
Assay by GC analysis (total C ₇ isomers).....	99.9% min.
Appearance.....	Pass
Color (APHA).....	10 max.

Size	Packaging	Cat. No.
19 L	Steel Can	CABDH1127-19L
4 L	Glass Bottle	CABDH1127-4LG
4 L	Poly Bottle	CABDH1127-4LP

Hexanes, ACS Grade.



Water-soluble titrable acid.....	0.3 µeq/g max.
Residue after evaporation.....	0.001% max.
Meets ACS specifications for general use.....	Pass
Color (APHA).....	10 max.
Assay by GC analysis (total C ₆ isomers).....	98.5% min.
Assay by GC analysis (n-Hexane).....	60% min.
Sulfur compounds (as S).....	0.005% max.

Size	Packaging	Cat. No.
19 L	Steel Can	CABDH1129-19L
4 L	Glass Bottle	CABDH1129-4LG
4 L	Poly Bottle	CABDH1129-4LP

Toluene, ACS Grade.

Suitable for histology and cytology applications.



Peroxides (as H ₂ O ₂).....	0.015% max.
Water.....	0.03% max.
Sulfur compounds (as S).....	0.003% max.
Substances darkened by sulfuric acid.....	Pass
Residue after evaporation.....	0.001% max.
Meets ACS specifications for general use.....	Pass
Color (APHA).....	10 max.
Assay by GC analysis.....	99.5% min.

Size	Packaging	Cat. No.
19 L	Steel Can	CABDH1151-19L
4 L	Glass Bottle	CABDH1151-4LG

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Tetrahydrofuran, ACS Grade.

Contains 250 to 400ppm BHT as a preservative.



Color (APHA)	20 max.
Water	0.05% max.
Residue after evaporation	0.03% max.
Peroxides (as H ₂ O ₂)	0.015% max.
Contains BHT preservative	Pass
Assay by GC analysis	99% min.
Meets ACS specifications for general use	Pass

Size	Packaging	Cat. No.
19 L	Steel Can	CABDH1149-19L
4 L	Glass Bottle	CABDH1149-4LG

Heptane, OmniSolv®. 99.5% min. (by GC).

For critical measurements in spectrophotometry and liquid chromatography. Low UV cutoff 193nm. Certificate of Analysis on label.



Size	Packaging	Supplier No.	Cat. No.
1 L	Glass Bottle	HX0076-1	CAHX0076-1

2,2,4-Trimethylpentane, ACS Grade.



Color (APHA)	10 max.
Water-soluble titratable acid	0.3 meq/g max.
Sulfur compounds (as S)	0.005% max.
Residue after evaporation	0.001% max.
Meets ACS specifications for general use	Pass
Assay by GC analysis	99% min.

Size	Packaging	Cat. No.
19 L	Steel Can	CABDH1155-19L

OmniSolv® Heptane

Meets Reagent Specifications for testing USP/NF monographs



Assay (n-heptane)	99.0% min
Assay (saturated C ₇ hydrocarbons)	99.9% min
Boiling range	94.5-99.0°C
Capillary ECD responsive substances (as PCNB)	5ng/L max
Color (APHA)	10 max
Filtered through 0.2 µm filter	To pass test
Fluorescence (as quinine base)	250ppt max
Form	Clear liquid
Infrared spectrum	Conforms to standard
Residue after evaporation	1 ppm max
UV Abs. at 197 nm	1.00AU max
UV Abs. at 200 nm	0.50AU max
UV Abs. at 210 nm	0.25AU max
UV Abs. at 220 nm	0.10AU max
UV Abs. at 230 nm	0.05AU max
UV Abs. at 250 nm	0.01AU max
UV Abs. at 260 nm	0.01AU max
UV Abs. at 270 nm	0.005AU max
UV Abs. at 300 nm	0.005AU max
UV Cut-off	197nm max
Water (H ₂ O)	0.01% max

Size	Packaging	Supplier No.	Cat. No.
4 L	Glass Bottle	HX0078-1	CAHX0078-1
1 L	Glass Bottle	HX0078-6	CAHX0078-6
4 L	Poly-Coated Glass Bottle	HX0078P-1	CAHX0078P-1

Hexanes, HPLC, 98.5% Hexanes

HPLC, Meets ACS Specifications, Meets Reagent Specifications for testing USP/NF monographs



Assay (n-hexane)	Report
Assay (total hexane isomers + methylcyclopentane)	98.5% min
Appearance	Clear liquid, free from particulates
Color (APHA)	10 max
Filtered through 0.2 µm filter	To pass test
Infrared spectrum	Conforms
Residue after evaporation	5ppm max
Sulfur compounds (as S)	0.005% max
Thiophene	To pass test
UV Abs. at 200 nm	1.00AU max
UV Abs. at 210 nm	0.30AU max
UV Abs. at 220 nm	0.20AU max
UV Abs. at 230 nm	0.10AU max
UV Abs. at 240 nm	0.04AU max
UV Abs. at 250 nm	0.02AU max
UV Abs. at 270 nm	0.01AU max
UV Abs. at 300 nm	0.01AU max
UV Abs. at 350 nm	0.01AU max
UV Cut-off	200nm max
Water (H ₂ O)	0.01% max
Water-soluble titratable acid	0.0003meq/g max

Size	Packaging	Supplier No.	Cat. No.
4 L	Glass Bottle	HX0290-1	CAHX0290-1
1 L	Glass Bottle	HX0290-6	CAHX0290-6
4 L	Poly-Coated Glass Bottle	HX0290P-1	CAHX0290P-1

n-Hexane 95%

HPLC, Meets Reagent Specifications for testing USP/NF monographs



Appearance	Clear liquid, free from particulates
Color (APHA)	10 max
Residue after evaporation	5ppm max
Infrared spectrum	Conforms
Assay (n-hexane)	95% min
Sulfur compounds (as S)	0.005% max
Thiophene	To pass test
Water-soluble titratable acid	0.0003meq/g max
Assay (total hexane isomers + methylcyclopentane)	99.0% min
UV Abs. at 200nm	1.0AU max
UV Abs. at 210 nm	0.30AU max
UV Abs. at 220 nm	0.10AU max
UV Abs. at 230 nm	0.05AU max
UV Abs. at 240 nm	0.04AU max
UV Abs. at 250 nm	0.02AU max
UV Abs. at 270 nm	0.01AU max
UV Abs. at 300 nm	0.01AU max
UV Abs. at 350 nm	0.01AU max
UV Cut-off	200nm max
Water (H ₂ O)	0.01% max

Size	Packaging	Supplier No.	Cat. No.
4 L	PTFE Bottle	HX0291-1	CAHX0291-1
4 L	Poly-Coated Glass Bottle	HX0291P-1	CAHX0291P-1
1 L	Poly-Coated Glass Bottle	HX0291P-6	CAHX0291P-6

OmniSolv® n-Hexane 95%

Suitable for spectrophotometry, HPLC, and gas chromatography and residue analysis. UV cutoff 195nm. Certificate of Analysis on label.

Assay (n-hexane).....	95% min
Boiling range.....	66.1-69.4°C
Capillary ECD responsive substances (as PCNB).....	5ng/L max
Capillary FID responsive substances (as decane).....	3µg/L max
Color (APHA).....	10 max
Filtered through 0.2 µm filter.....	To pass test
Fluorescence (as quinine base).....	250ppt max
Form.....	Clear liquid
Infrared spectrum.....	Conforms to standard
Residue after evaporation.....	1 ppm max
UV Abs. at 195 nm.....	1.00AU max
UV Abs. at 200 nm.....	0.50AU max
UV Abs. at 210 nm.....	0.20AU max
UV Abs. at 220 nm.....	0.05AU max
UV Abs. at 230 nm.....	0.05AU max
UV Abs. at 250 nm.....	0.01AU max
UV Abs. at 280 nm.....	0.005AU max
UV Cut-off.....	195nm max
Water (H ₂ O).....	0.01% max

Size	Packaging	Supplier No.	Cat. No.
4 L	Glass Bottle	HX0295-1	CAHX0295-1
1 L	Glass Bottle	HX0295-6	CAHX0295-6



OmniSolv® HR-GC Hexanes 98.5%

For high resolution gas chromatography. Purity based on n-hexane and saturated C6 hydrocarbons. Lot analysis and chromatograms on label.

Assay (n-hexane).....	Report
Assay (total aliphatic hydrocarbons <C ₆).....	99.9% min
Assay (total hexane isomers + methylcyclopentane).....	98.5% min
Appearance.....	Clear liquid, free from particulates
Cap. ECD responsive substances as PCNB (peak).....	2ng/L max
Cap. ECD responsive substances as PCNB (total).....	20ng/L max
Cap. FID responsive substances as decane (peak).....	1µg/L max
Cap. FID responsive substances as decane (total).....	10µg/L max
Color (APHA).....	5 max
Filtered through 0.2 µm filter.....	To pass test
Infrared spectrum.....	Conforms
Residue after evaporation.....	1 ppm max
Titration acid.....	0.2µeq/g max
Water (H ₂ O).....	0.01% max

Size	Packaging	Supplier No.	Cat. No.
4 L	Glass Bottle	HX0297-1	CAHX0297-1

OmniSolv® Hexanes 98.5%, For GC Analyses, Non-UV

For gas chromatography and residue analysis. Not optically transparent in the UV region. Purity based on n-hexane and saturated C6 hydrocarbons. Lot analysis on label.

Assay (n-hexane).....	Report
Assay (total aliphatic hydrocarbons <C ₆).....	99.8% min
Assay (total hexane isomers + methylcyclopentane).....	98.5% min
Boiling range.....	66.1-69.4°C
Capillary ECD responsive substances (as PCNB).....	2ng/L max
Capillary FID responsive substances (as decane).....	3µg/L max
Color (APHA).....	10 max
Filtered through 0.2 µm filter.....	To pass test
Form.....	Clear liquid
Infrared spectrum.....	Conforms
Residue after evaporation.....	1 ppm max
Water (H ₂ O).....	0.01% max

Size	Packaging	Supplier No.	Cat. No.
4 L	Glass Bottle	HX0298-1	CAHX0298-1
1 L	Glass Bottle	HX0298-6	CAHX0298-6



OmniSolv® Hexanes 98.5%

Suitable for spectrophotometry, HPLC and gas chromatography, and residue analysis. UV cutoff 195nm. For neat, nitrogen-purged hexane in a 1cm cell versus water, absorbance is 0.20 to 0.005 between 210nm and 280nm. Certificate of Analysis on label.

Assay (total aliphatic hydrocarbons <C ₆).....	99.8% min
Assay (total hexane isomers + methylcyclopentane).....	98.5% min
Boiling range.....	66.1-69.4°C
Capillary ECD responsive substances (as PCNB).....	5ng/L max
Capillary FID responsive substances (as decane).....	3µg/L max
Color (APHA).....	10 max
Filtered through 0.2 µm filter.....	To pass test
Fluorescence (as quinine base).....	250ppt max
Form.....	Clear liquid
Identity (IR-spectrum).....	Conforms
Residue after evaporation.....	1 ppm max
UV Abs. at 195 nm.....	1.00AU max
UV Abs. at 200 nm.....	0.50AU max
UV Abs. at 210 nm.....	0.20AU max
UV Abs. at 220 nm.....	0.05AU max
UV Abs. at 230 nm.....	0.05AU max
UV Abs. at 250 nm.....	0.01AU max
UV Abs. at 280 nm.....	0.005AU max
UV Cut-off.....	195nm max
Water (H ₂ O).....	0.01% max

Size	Packaging	Supplier No.	Cat. No.
4 L	Glass Bottle	HX0296-1	CAHX0296-1
1 L	Glass Bottle	HX0296-6	CAHX0296-6
4 L	Poly-Coated Glass Bottle	HX0296P-1	CAHX0296P-1



OmniSolv® Tetrahydrofuran, No Stabilizer

Meets Reagent Specifications for testing USP/NF monographs

Expiration date.....	Exp 12 months from mfg date
Assay (GC).....	99.9% min
Color (APHA).....	10 max
Filtered through 0.2 µm filter.....	To pass test
Form.....	Clear liquid
Identity (IR-spectrum).....	Conforms
Peroxide (as H ₂ O ₂)*.....	0.02% max
Residue after evaporation.....	2 ppm max
Titration acid.....	0.8µeq/g max
UV Abs. at 212 nm.....	1.00AU max
UV Abs. at 225 nm.....	0.50AU max
UV Abs. at 250 nm.....	0.10AU max
UV Abs. at 300 nm.....	0.005AU max
UV Cut-off.....	212nm max
Water (H ₂ O).....	0.02% max

Size	Packaging	Supplier No.	Cat. No.
4 L	Glass Bottle	TX0279-1	CATX0279-1
1 L	Glass Bottle	TX0279-6	CATX0279-6
100 mL	Glass Bottle	TX0279-7	CATX0279-7

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OmniSolv® Tetrahydrofuran Non-UV

Stabilized with 250ppm BHT (butylated hydroxytoluene; 2,6-di-tert-butyl-p-cresol). For chromatography. Can be used for HPLC non-UV applications using refractive index and visible wavelength detectors.



Assay (GC)	99.9% min
Color (APHA)	10 max
Filtered through 0.2 µm filter	To pass test
Form	Clear liquid
Identity (IR-spectrum)	Conforms
Peroxide (as H ₂ O ₂)	0.01% max
Stabilizer (BHT)	0.0140-0.0310%
Titration acid	1.0µeq/g max
Water (H ₂ O)	0.03% max

Size	Packaging	Supplier No.	Cat. No.
4 L	Glass Bottle	TX0282-1	CATX0282-1
1 L	Glass Bottle	TX0282-6	CATX0282-6

Methanol, ACS Grade.

Clear liquid. Suitable for histology and cytology applications. Soluble in water.



Solubility in water	Pass
Water	0.1% max.
Titration base	0.2 µeq/g max.
Assay by GC analysis	99.8% min.
Titration acid	0.3 µeq/g max.
Substances reducing permanganate	Pass
Substances darkened by sulfuric acid	Pass
Meets ACS specifications for general use	Pass
Carbonyl Compounds	0.001% max.
Color (APHA)	10 max.
Residue after evaporation	0.001% max.

Size	Packaging	Cat. No.
19 L	Steel Can	CABDH1135-19L
1 L	Poly Bottle	CABDH1135-1LP
4 L	Glass Bottle	CABDH1135-4LG
4 L	Poly Bottle	CABDH1135-4LP

Methyl Ethyl Ketone, ACS Grade.



Assay (by GC)	99.0% min.
Color (APHA)	15 max.
Residue after Evaporation	0.0025% max.
Titration Acid	0.5 µEq/g max.
Water	0.20% max.

Size	Packaging	Cat. No.
19 L	Steel Can	CABDH1137-19L

Methyl tert-Butyl Ether, ACS Grade.



Meets ACS specifications for general use	Pass
Residue after evaporation	0.001% max.
Water	0.05% max.
Color (APHA)	10 max.
Assay by GC analysis	99% min.
Peroxide (as H ₂ O ₂)	1 ppm
Contains BHT preservative	Pass

Size	Packaging	Cat. No.
19 L	Steel Can	CABDH1139-19L
4 L	Glass Bottle	CABDH1139-4LG

1-Methyl-2-pyrrolidinone, ACS Grade.



Assay (by GC)	99.0% min.
Chloride	1 ppm max.
Color (APHA)	50 max.
Free Amine (as CH ₃ NH ₂)	0.01% max.
Water	0.050% max.

Size	Packaging	Cat. No.
19 L	Steel Can	CABDH1141-19L
4 L	Glass Bottle	CABDH1141-4LG
4 L	Poly Bottle	CABDH1141-4LP

OmniSolv® 2-Butanone

For spectrophotometry and chromatography. UV cutoff 329nm. Lot analysis on label.



Assay (GC)	99.5% min
Color (APHA)	10 max
Filtered through 0.2 µm filter	To pass test
Form	Clear liquid
Infrared spectrum	Conforms to standard
Residue after evaporation	5ppm max
UV Abs. at 329 nm	1.00AU max
UV Abs. at 335 nm	0.30AU max
UV Abs. at 344 nm	0.05AU max
UV Abs. at 350 nm	0.01AU max
UV Abs. at 400 nm	0.005AU max
UV Cut-off	329nm max
Water (H ₂ O)	0.05% max

Size	Packaging	Supplier No.	Cat. No.
1 L	Glass Bottle	BX1673-3	CABX1673-3

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Methanol HPLC

HPLC, Meets ACS Specifications, Meets Reagent Specifications for testing USP/NF monographs



Assay (GC)	99.8% min
Appearance.....	Clear liquid free from particulates
Carbonyl comps (acetone, formaldehyde, acetaldehyde).....	0.001% max
Color (APHA)	10 max
Filtered through 0.2 µm filter.....	To pass test
Gradient at 254 nm.....	0.005AU max
Identity (IR-spectrum).....	Conforms
Residue after evaporation	2ppm max
Solubility in water	To pass test
Substances darkened by sulfuric acid.....	To pass test
Substances reducing permanganate.....	To pass test
Titration acid	0.0003meq/g max
Titration base	0.0002meq/g max
UV Abs. at 205 nm	1.00AU max
UV Abs. at 210 nm	0.80AU max
UV Abs. at 220 nm	0.40AU max
UV Abs. at 230 nm	0.20AU max
UV Abs. at 240 nm	0.10AU max
UV Abs. at 260 nm	0.04AU max
UV Abs. at 280 nm	0.01AU max
UV Abs. at 300 nm	0.01AU max
UV Abs. at 350 nm	0.01AU max
UV Cut-off	205nm max
Water (H ₂ O).....	0.05% max

Size	Packaging	Supplier No.	Cat. No.
4 L	Glass Bottle	MX0475-1	CAMX0475-1
4 L	Poly-Coated Glass Bottle	MX0475P-1	CAMX0475P-1
1 L	Poly-Coated Glass Bottle	MX0475P-6	CAMX0475P-6

OmniSolv® HR-GC Methanol

Tested for use in high resolution gas chromatography. Chromatograms supplied with each bottle.



Appearance.....	Clear liquid, free from particulates
Assay (GC)	99.9% min
Cap. ECD responsive substances as PCNB (peak).....	2ng/L max
Cap. ECD responsive substances as PCNB (total).....	20ng/L max
Cap. FID responsive substances as decane (peak).....	1µg/L max
Cap. FID responsive substances as decane (total).....	10µg/L max
Color (APHA)	5 max
Residue after evaporation	1ppm max
Filtered through 0.2 µm filter.....	To pass test
Formaldehyde (HCHO).....	1ppm max
Infrared spectrum.....	Conforms to standard
Titration acid	0.2µeq/g max
Water (H ₂ O).....	0.05% max

Size	Packaging	Supplier No.	Cat. No.
4 L	Glass Bottle	MX0480-1	CAMX0480-1
1 L	Glass Bottle	MX0480-6	CAMX0480-6

OmniSolv® Methanol, Pesticide Residue Grade

Tested for use in gas chromatography and residue analysis.



Assay (GC)	99.5% min
Aldehydes and ketones.....	10ppm max
Cap. ECD responsive substances as PCNB (peak).....	5ng/L max
Cap. ECD responsive substances as PCNB (total).....	50ng/L max
Cap. FID responsive substances as decane (peak).....	2µg/L max
Cap. FID responsive substances as decane (total).....	20µg/L max
Color (APHA)	10 max
Filtered through 0.2 µm filter.....	To pass test
Form	Clear liquid
Infrared spectrum.....	Conforms to standard
Residue after evaporation	1ppm max
Titration acid	0.3µeq/g max
Water (H ₂ O).....	0.05% max

Size	Packaging	Supplier No.	Cat. No.
1 L	Glass Bottle	MX0484-6	CAMX0484-6

OmniSolv® LC-MS Methanol

Clear liquid. For use in HPLC, GC, and spectrophotometry. The infrared spectrum conforms to the standard. Filtered through a 0.2µm element for purity. UV cutoff at 205nm.



Assay (GC)	99.9% min
Color (APHA)	10 max
Filtered through 0.2 µm filter.....	To pass test
Fluorescence as quinine at 254 nm.....	1ppb max
Fluorescence as quinine at 365 nm.....	1ppb max
Form	Clear liquid
Gradient at 235 nm.....	1mAU max
Gradient at 254 nm.....	1mAU max
Identity (IR-spectrum).....	Conforms
Metals, suitable for LC/MS	To pass test
MS purity, ESI(+), largest response as reserpine	50ppb max
MS purity, ESI(-), largest response, p-nitrophenol	50ppb max
Residue after evaporation	1ppm max
Titration acid	0.3µeq/g max
Titration base	0.2µeq/g max
UV Abs. at 210 nm	0.3AU max
UV Abs. at 220 nm	0.1AU max
UV Abs. at 230 nm	0.04AU max
UV Abs. at 240 nm	0.03AU max
UV Abs. at 250 nm	0.01AU max
UV Abs. at 270 nm	0.01AU max
UV Abs. at 400-280 nm.....	0.005AU max
UV Cut-off	205nm max
Water (H ₂ O).....	0.05% max

Size	Packaging	Supplier No.	Cat. No.
4 L	Glass Bottle	MX0486-1	CAMX0486-1
1 L	Glass Bottle	MX0486-6	CAMX0486-6

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OmniSolv® Methanol Gradient Grade

Suitable for use in spectrophotometry and HPLC and gas chromatography. Gradient controlled for absence of lipophilic interferences at 254 and 235nm. UV cutoff 203nm. Certificate of Analysis on label.



Assay (GC)	99.9% min
Acetone	10ppm max
Color (APHA)	10 max
Filtered through 0.2 µm filter	To pass test
Fluorescence (as quinine base)	250ppt max
Form	Clear liquid
Infrared spectrum	Conforms to standard
Residue after evaporation	1 ppm max
Titration acid	0.3µeq/g max
Titration base	0.2µeq/g max
UV Abs. at 203 nm	1.00AU max
UV Abs. at 205 nm	0.80AU max
UV Abs. at 210 nm	0.25AU max
UV Abs. at 220 nm	0.10AU max
UV Abs. at 230 nm	0.03AU max
UV Abs. at 250 nm	0.01AU max
UV Abs. at 260 nm	0.005AU max
UV Abs. at 300 nm	0.005AU max
UV Cut-off	203nm max
Water (H ₂ O)	0.05% max

Size	Packaging	Supplier No.	Cat. No.
4 L	Glass Bottle	MX0488-1	CAMX0488-1
1 L	Glass Bottle	MX0488-6	CAMX0488-6
4 L	Poly-Coated Glass Bottle	MX0488P-1	CAMX0488P-1

OmniSolv® 1-Methyl-2-Pyrrolidone

Suitable for spectrophotometry and GC. Actual Lot Analysis on label. UV cutoff 285nm.



Assay (GC)	99.7% min
Color (APHA)	10 max
Filtered through 0.2 µm filter	To pass test
Form	Clear liquid
Infrared spectrum	Conforms to standard
Residue after ignition	5ppm max
Titration base	1µeq/g max
UV Abs. at 270 nm	1.00AU max
UV Abs. at 300 nm	0.20AU max
UV Abs. at 325 nm	0.10AU max
UV Abs. at 350 nm	0.03AU max
UV Abs. at 400 nm	0.005AU max
UV Cut-off	270nm max
Water (H ₂ O)	0.08% max

Size	Packaging	Supplier No.	Cat. No.
4 L	Glass Bottle	MX1390-1	CAMX1390-1

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OmniSolv® Toluene

For spectrophotometry, HPLC, gas chromatography, and residue analysis. Filtered through a 0.2µm filter. UV cutoff 285nm. Lot analysis on label.



Assay (Toluene)	99.9% min
Capillary ECD responsive substances (as PCNB)	5ng/L max
Color (APHA)	10 max
Filtered through 0.2 µm filter	To pass test
Form	Clear liquid
Infrared spectrum	Conforms to standard
Residue after evaporation	3ppm max
UV Abs. at 285 nm	1.00AU max
UV Abs. at 286 nm	0.70AU max
UV Abs. at 288 nm	0.40AU max
UV Abs. at 300 nm	0.10AU max
UV Abs. at 350 nm	0.01AU max
UV Cut-off	285nm max
Water (H ₂ O)	0.02% max

Size	Packaging	Supplier No.	Cat. No.
4 L	Glass Bottle	TX0737-1	CATX0737-1
1 L	Glass Bottle	TX0737-6	CATX0737-6

2-Propanol, Solution. 68.0–72.0%.

Clear, colorless liquid.



Specific gravity (20°C/20°C)	0.863-0.883
Water	28-32%
Isopropyl alcohol	68-72%
Appearance	Pass

Size	Packaging	Cat. No.
1 L	Poly Bottle	CABDH1131-1LP
4 L	Poly Bottle	CABDH1131-4LP
5 gal.	Cubitainer®	CABDH1131-5GL

2-Propanol, ACS Grade.

Suitable for histology and cytology applications. Soluble in water. Meets ACS Specifications for general use.



Water	0.2% max.
Residue after evaporation	0.001% max.
Assay by GC analysis	99.50% min.
Solubility in water	Passes test
Color (APHA)	10 max.
Titration acid or base	0.1 µeq/g max.
Carbonyl compounds (as acetone or propionaldehyde)	0.002% max.

Size	Packaging	Cat. No.
19 L	Steel Can	CABDH1133-19L
1 L	Poly Bottle	CABDH1133-1LP
4 L	Glass Bottle	CABDH1133-4LG
4 L	Poly Bottle	CABDH1133-4LP
5 gal.	Cubitainer®	CABDH1133-5GL

Pentane, Reagent Grade.

Clear, colorless liquid.



Assay by GC analysis (n-pentane).....	99% min.
Assay by GC analysis (total C ₅ isomers).....	99.9% min.
Residue after evaporation.....	0.001% max.
Water.....	0.01% max.

Size	Packaging	Cat. No.
19 L	Steel Can	CABDH1143-19L
4 L	Glass Bottle	CABDH1143-4LG

Petroleum Ether, ACS Grade. (35-60°C), BDH



Dry point.....	60 °C
Residue after evaporation.....	0.001% max.
Initial boiling point.....	35 °C
Color (APHA).....	10 max.
Boiling range.....	Pass
Acidity.....	Pass
Meets ACS specifications for general use.....	Pass

Size	Packaging	Cat. No.
19 L	Steel Can	CABDH1145-19L
4 L	Glass Bottle	CABDH1145-4LG

1-Propanol, ACS Grade.

Soluble in water.



Methanol.....	0.01% max.
Water.....	0.2% max.
Titration acid.....	0.4 µeq/g max.
Residue after evaporation.....	0.001% max.
Assay by GC analysis.....	99.5% min.
Isopropyl alcohol.....	0.05% max.
Solubility in water.....	Pass
Ethyl Alcohol.....	0.01% max.
Color (APHA).....	10 max.
Carbonyl Compounds (as C ₂ H ₃ CHO).....	0.03% max.
Meets ACS specifications for general use.....	Pass

Size	Packaging	Cat. No.
19 L	Steel Can	CABDH1147-19L

OmniSolv® Pentane

For spectrophotometry, chromatography, and residue analysis. UV cutoff 190nm.



Assay (n-Pentane).....	98% min
Assay (total C ₅ isomers).....	99.9% min
Capillary ECD responsive substances (as PCNB).....	10ng/L max
Form.....	Clear liquid
Refractive index (n 20/D).....	1.3570-1.3580
Residue after evaporation.....	1mg/L max
UV Abs. at 190 nm.....	1.00AU max
UV Abs. at 200 nm.....	0.600AU max
UV Abs. at 250 nm.....	0.010AU max
UV Abs. at 300 nm.....	0.005AU max
UV Abs. at 400 nm.....	0.005AU max
Water (H ₂ O).....	0.01% max

Size	Packaging	Supplier No.	Cat. No.
4 L	Glass Bottle	PX0167-1	CAPX0167-1

OmniSolv® Petroleum Ether Non UV



Boiling range.....	35-60°C
Capillary ECD responsive substances (as PCNB).....	2ng/L max
Color (APHA).....	10 max
Filtered through 0.2 µm filter.....	To pass test
Form.....	Clear liquid
Infrared spectrum.....	Conforms to standard
Residue after evaporation.....	1 ppm max
Titration acid.....	0.2µeq/g max
Water (H ₂ O).....	0.01% max

Size	Packaging	Supplier No.	Cat. No.
4 L	Glass Bottle	PX0424-1	CAPX0424-1
1 L	Glass Bottle	PX0424-6	CAPX0424-6

Trifluoroacetic Acid, HPLC Grade, 99.9% min.

Colorless to light yellow liquid.



Size	Packaging	Supplier No.	Cat. No.
250 mL	Glass Bottle	TX1276-6	CATX1276-6
1 L	Glass Bottle	TX1276-7	CATX1276-7

OmniSolv® 2,2,4-Trimethylpentane

Suitable for spectrophotometry, chromatography, and residue analysis. UV cutoff 200nm. Certificate of analysis on label.



Assay (GC).....	99.5% min
Capillary ECD responsive substances (as PCNB).....	5ng/L max
Color (APHA).....	10 max
Filtered through 0.2 µm filter.....	To pass test
Fluorescence (as quinine base).....	250ppt max
Form.....	Clear liquid
Infrared spectrum.....	Conforms to standard
Residue after evaporation.....	1 ppm max
UV Abs. at 200 nm.....	1.00AU max
UV Abs. at 220 nm.....	0.05AU max
UV Abs. at 230 nm.....	0.02AU max
UV Abs. at 250 nm.....	0.005AU max
UV Abs. at 270 nm.....	0.005AU max
UV Abs. at 300 nm.....	0.005AU max
UV Cut-off.....	200nm max
Water (H ₂ O).....	0.01% max

Size	Packaging	Supplier No.	Cat. No.
4 L	Poly-Coated Glass Bottle	TX1389P-1	CATX1389P-1

o-Phosphoric Acid, HPLC Grade.



Max. UV Absorbance at 220 nm.....	0.05
Max. UV Absorbance at 254 nm.....	0.04
Max. UV Absorbance at 300 nm.....	0.02
Antimony.....	0.002% max.
Arsenic.....	0.5 ppm max.
Assay.....	85.0% min.
Color (APHA).....	10 max.
Chloride.....	3 ppm max.
Heavy Metals (as Pb).....	0.001% max.

Size	Packaging	Supplier No.	Cat. No.
500 mL	Poly-Coated Glass Bottle	PX0996-6	CAPX0996-6

OmniSolv® *n*-Propyl Alcohol

Suitable for HPLC and gas chromatography and spectrophotometry. UV cutoff 210nm. Filtered to remove particulate matter. Lot analysis on label.

Assay (GC)	99.5% min
Aldehydes	0.01% max
Color (APHA)	10 max
Filtered through 0.2 µm filter	To pass test
Fluorescence (as quinine base)	200ppt max
Form	Clear liquid
Infrared spectrum	Conforms to standard
Residue after evaporation	1ppm max
Titration acid	0.2µeq/g max
UV Abs. at 210 nm	1.00AU max
UV Abs. at 220 nm	0.50AU max
UV Abs. at 230 nm	0.25AU max
UV Abs. at 250 nm	0.05AU max
UV Abs. at 300 nm	0.005AU max
UV Cut-off	210nm max
Water (H ₂ O)	0.05% max

Size	Packaging	Supplier No.	Cat. No.
4 L	Glass Bottle	PX1824-1	CAPX1824-1
1 L	Glass Bottle	PX1824-6	CAPX1824-6

Isopropyl Alcohol HPLC

HPLC, Meets ACS Specifications, Meets Reagent Specifications for testing USP/NF monographs

Assay (GC)	99.8% min
Appearance	Clear liquid, free from particulates
Carbonyl compounds (acetone or propionaldehyde)	0.002% max
Color (APHA)	10 max
Filtered through 0.2 µm filter	To pass test
Infrared spectrum	Conforms to standard
Residue after evaporation	5ppm max
Solubility in water	To pass test
Titration acid	0.0001meq/g max
Titration base	0.0001meq/g max
UV Abs. at 210 nm	1.00AU max
UV Abs. at 220 nm	0.40AU max
UV Abs. at 230 nm	0.20AU max
UV Abs. at 245 nm	0.08AU max
UV Abs. at 260 nm	0.04AU max
UV Abs. at 275 nm	0.03AU max
UV Abs. at 300 nm	0.02AU max
UV Abs. at 350 nm	0.01AU max
UV Cut-off	210nm max
Water (H ₂ O)	0.10% max

Size	Packaging	Supplier No.	Cat. No.
4 L	Glass Bottle	PX1838-1	CAPX1838-1
4 L	Poly-Coated Glass Bottle	PX1838P-1	CAPX1838P-1



OmniSolv® Pyridine

Suitable for spectrophotometry and HPLC and GC. UV cutoff at 330nm. Filtered to remove particulate matter. Lot analysis on label.

Assay (GC)	99.0% min
Color (APHA) at time of manufacture	10 max
Filtered through 0.2 µm filter	To pass test
Form	Clear liquid
Infrared spectrum	Conforms to standard
Residue after evaporation	4ppm max
UV Abs. at 330 nm	1.00AU max
UV Abs. at 340 nm	0.30AU max
UV Abs. at 350 nm	0.10AU max
UV Abs. at 400 nm	0.01AU max
UV Cut-off	330nm max
Water (H ₂ O)	0.05% max

Size	Packaging	Supplier No.	Cat. No.
4 L	Glass Bottle	PX2014-1	CAPX2014-1
1 L	Glass Bottle	PX2014-6	CAPX2014-6

Sodium Acetate, Trihydrate HPLC

Size	Supplier No.	Cat. No.
500 g	SX0256-5	CASX0256-5

Sodium Bicarbonate HPLC

Assay (dried basis)	99.7-100.3%
Ammonium (NH ₄)	5ppm max
Calcium (Ca)	0.02% max
Chloride (Cl)	0.003% max
Form	White powder
Heavy metals (as Pb)	5ppm max
Insoluble matter	0.015% max
Iron (Fe)	0.001% max
Magnesium (Mg)	0.005% max
Phosphate (PO ₄)	0.001% max
Potassium (K)	0.005% max
Sulfur compounds (as SO ₄)	0.003% max
UV Absorbance (1 M, water, 254 nm)	0.05AU max
UV Absorbance (1 M, water, 280 nm)	0.02AU max
UV Absorbance (1 M, water, 350 nm)	0.01AU max

Size	Supplier No.	Cat. No.
500 g	SX0322-5	CASX0322-5

Sodium Phosphate, Dibasic, Anhydrous HPLC

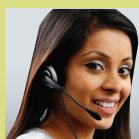
Assay	99.0% min
Chloride (Cl)	0.002% max
Form	White crystalline powder
Heavy metals (as Pb)	0.001% max
Insoluble matter	0.01% max
Iron (Fe)	0.002% max
Loss on drying	0.2% max
pH of a 5% solution at 25°C	8.7-9.3
Sulfate (SO ₄)	0.005% max
UV Absorbance (1 M, water, 280 nm)	0.05AU max

Size	Supplier No.	Cat. No.
500 g	SX0723-5	CASX0723-5



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OmniSolv® 1,2,4-Trichlorobenzene



Size	Packaging	Supplier No.	Cat. No.
4 L	Poly-Coated Glass Bottle	TX1056P-1	CATX1056P-1

Trifluoroacetic Acid



Assay	99.9% min
Chloride (Cl)	0.001% max
Color (APHA)	5 max
Fluoride (F)	0.001% max
Form	Clear liquid
Iron (Fe)	0.0001% max
Residue after evaporation	0.005% max
Sulfate (SO ₄)	0.001% max
UV Absorbance (0.1%, 1 cm, H ₂ O, 230 nm)	0.15AU max
UV Absorbance (0.1%, 1 cm, H ₂ O, 254 nm)	0.01AU max
Water (H ₂ O)	0.05% max

Size	Packaging	Supplier No.	Cat. No.
2.5 L	Poly-Coated Glass Bottle	TX1276-4	CATX1276-4

Ammonium Acetate HPLC



Assay	98.0% min
Chloride (Cl)	5ppm max
Form	White crystals
Heavy metals (as Pb)	5ppm max
Insoluble matter	0.005% max
Iron (Fe)	5ppm max
Nitrate (NO ₃)	0.001% max
pH of a 5% solution at 25°C	6.7-7.3
Residue after ignition	0.01% max
Sulfate (SO ₄)	0.001% max
UV Absorbance (1 M, water, 254 nm)	0.02AU max
UV Absorbance (1 M, water, 280 nm)	0.01AU max
UV Absorbance (1 M, water, 350 nm)	0.01AU max

Size	Supplier No.	Cat. No.
500 g	AX1222-5	CAAX1222-5

Stannous Chloride Dihydrate, ACS



Assay	98 – 103.0% SnCl ₂ ·2H ₂ O
Solubility in hydrochloric acid	Passes test
Sulfate (SO ₄)	Passes test
Calcium (Ca)	0.005% max
Iron (Fe)	0.003% max
Lead (Pb)	0.01% max
Potassium(K)	0.005% max
Sodium (Na)	0.01% max

Size	Packaging	Cat. No.
500 g	Poly Bottle	CABDH9304-500G



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Problems Require
Sophisticated
Solutions.**

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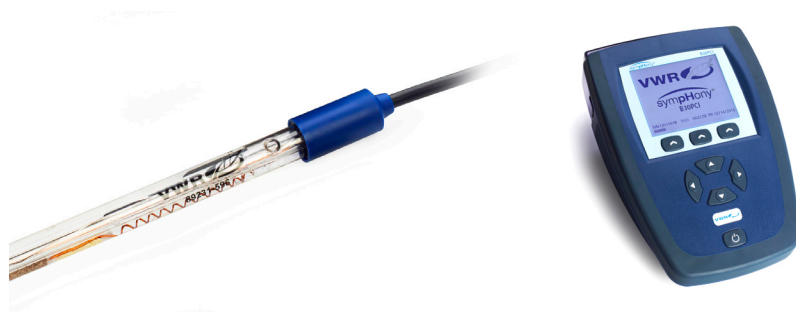


VWR® symHony™ Benchtop Meters

- Simple to operate and maintain
- Consistently accurate and reliable measurements
- Configurable to each user's unique needs
- VWR Three-Year Limited Warranty

Specially designed for use in the lab, these rugged and durable benchtop meters are versatile enough to fit your unique testing needs. These meters are simple to operate and offer an intuitive user interface allowing for easy set up and use from day one. Step-by-step on screen prompts enable both new and seasoned users to operate the meter easily and effectively, resulting in consistently accurate measurements.

VWR® symHony™ benchtop meters meet IP54 specifications for protection from water and are CE and cETLus marked.



AT-BenchtopORP, AT-BenchtoppH, AT-MeterProbeStand, AT-Probe Stand

Ordering Information: Stand is not included with the meter kits. Each benchtop meter can be configured to fit your needs with the variety of optional electrodes, stands with stirrers, and accessories available.

Conductivity - accuracy	≤ 0.5% m.v. ± 1 digit
Conductivity - range	0.001 μS/cm to 1000 mS/cm
Conductivity - resolution	Variable, autorange
Dissolved Oxygen Range	0.00 to 60.0 mg/L
DO - accuracy	≤ 0.5% m.v. ± 1 digit
DO - resolution (mg/l)	0.01 mg/L in the range of 0.00 to 19.99 mg/L 0.1 mg/L in the range of 20.0 to 60.0 mg/L 0.1 % in the range of 0.0 to 19.9% 1% in the range of 20 to 600%
ISE - range	10-5 to 10-1 mol/L
ISE - units	mol/L, M, g/L, mg/L, μg/L, mmol/L, mM, μmol/L, or %
pH - accuracy	≤ 0.002 pH (± 1 digit)
pH - range	-2 to 19
pH - resolution	0.1/0.01/0.001
Resistivity - accuracy	≤ 0.5% m.v. ± 1 digit
Resistivity Range	0.0001 to 100 MΩ
Resistivity Resolution	Variable, autorange
Salinity - range	Automatic, with manual data entry (0-45 ppt)

Description	Cat. No.
Benchtop Meters	
B10P Benchtop Meter - pH	89231-662
B20PI Benchtop Multi Parameter Meter - pH, ISE	89231-692
Accessories	
Description	Cat. No.
symHony stirrer with electrode stand	89236-594
symHony electrode stand	89236-596

Custom Manufacturing

In addition to the products listed in our catalogue, Anachemia has the manufacturing capabilities to produce almost any chemical formulation or custom package size or type that your organization may need. Whether your goal is to reduce your staff's time spent preparing formulations used in your lab or to have product pre-packaged in single dose units, Anachemia's experienced chemical manufacturing personnel can assist you.

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VWR® symphony™ Handheld Meters

- Simple to operate and maintain
- Consistently accurate and reliable measurements
- Configurable to each user's unique needs
- VWR Three-Year Limited Warranty

Specially designed for use in environmental field applications and in the lab, these rugged and durable handheld meters are versatile enough to fit your unique testing needs. These meters are simple to operate and offer an intuitive user interface allowing for easy set up and use from day one. Step-by-step on screen prompts enable both new and seasoned users to operate the meter easily and effectively resulting in consistently accurate measurements. Each handheld meter is waterproof and can be configured to fit your needs with the variety of electrodes and accessories available. Each meter features one single connector that can be used when testing for multiple parameters, and also allows for automatic or manual calibration and automatic buffer recognition.

VWR® symphony™ handheld meters are IP67 certified and are CE and cETLus marked.



Description	Includes	Cat. No.
Handheld Meter Kits		
H10P Handheld pH Meter with pH Probe	H10P Meter (89231-666) and Gel-Filled pH Electrode (89231-608)	89231-668
Accessories		
Description		Cat. No.
Portable Multisensor; pH/Cond/ORP; non-refillable gel electrolyte in Ag/AgCl reference (SJ); porous pin diaphragm (pH/ORP); platinum sensor (ORP); 2-pole platinum bands (Cond); PC body; integrated temperature sensor		89231-656
Portable Multisensor; pH/Cond; non-refillable gel electrolyte in Ag/AgCl reference (SJ); porous pin diaphragm (pH); 2-pole platinum bands (Cond); PC body; integrated temperature sensor		89231-658
Portable Multisensor; pH/Cond/DO; 3-individually replaceable electrodes in large diameter multihandle head; pH: non-refillable gel electrolyte in Ag/AgCl reference (SJ); porous pin diaphragm; PC body Cond: 2-pole platinum bands (Cond); integrated temperature sensor; non-platinized; PC body DO: replaceable membrane module; PC body		89231-660
Portable hard-sided VWR symphony meter case		89236-580

VWR® Electrodes



Description	Range	D x L	Internal Reference	Body Material	Connector	Junction	Temperature Range	Sensor Type	Cat. No.
pH Electrodes									
pH Electrode	0 to 14 pH	12 x 103 mm	Ag/AgCl	Epoxy Body	BNC	Porous Pin	0 to 80°C	Standard	89231-572
pH Electrode	0 to 14 pH	6.5 x 150 mm	Ag/AgCl	Glass Body	BNC	Porous Pin	0 to 80°C	Semi-Micro Diameter	89231-574
pH Electrode	0 to 14 pH	6.5 x 150 mm	Ag/AgCl	Epoxy Body	BNC	Porous Pin	0 to 80°C	Semi-Micro Diameter	89231-576
pH Electrode	0 to 14 pH	8 x 305 mm	Ag/AgCl	Epoxy Body	BNC	Porous Pin	0 to 80°C	Semi-Micro Diameter	89231-578
pH Electrode	0 to 14 pH	12 x 103 mm	Red Rod	Glass Body	BNC	Porous Pin	-10 to 100°C	Standard	89231-580
pH Electrode with Rugged Bulb	0 to 14 pH	12 x 103 mm	Red Rod	Glass Body	BNC	Porous Pin	-10 to 100°C	Thicker (Rugged) Bulb	89231-582
pH Electrode	0 to 14 pH	12 x 120 mm	Ag/AgCl	Epoxy Body	BNC	Wick	0 to 80°C	Flat Surface	89231-584
pH Electrode	0 to 14 pH	12 x 103 mm	Red Rod	Glass Body	BNC	Sleeve	-10 to 100°C	Standard	89231-586
pH Electrode	0 to 14 pH	12 x 120 mm	Ag/AgCl	Epoxy Body	BNC	High-Flow	0 to 80°C	Standard	89231-588
pH Electrode	0 to 14 pH	4.75 x 155 mm	DJ Ag/AgCl ₂	Glass Body	BNC	Porous Pin	0 to 80°C	Micro Diameter	89231-590
pH Electrode	0 to 14 pH	6.5 x 155 mm	DJ Ag/AgCl ₂	Glass Body	BNC	Porous Pin	0 to 80°C	Semi-Micro Diameter	89231-592
pH Electrode with Integrated Temperature Sensor	2 to 14 pH	12 x 120 mm	Ag/AgCl (sleeved)	Glass Body	BNC + Banana	Open	0 to 80°C	Standard	89231-594
pH Electrode with Integrated Temperature Sensor	0 to 14 pH	12 x 120 mm	Ag/AgCl (cartridge w/Ag ⁺ Barrier)	Glass Body	BNC + Banana	Porous Pin x 2	-10 to 100°C	Standard	89231-596
pH Electrode with Integrated Temperature Sensor	0 to 14 pH	12 x 120 mm	Ag/AgCl (cartridge w/Ag ⁺ Barrier)	Glass Body	BNC + Banana	Sleeve	0 to 60°C	Standard	89231-598
pH Electrode with Integrated Temperature Sensor	0 to 14 pH	12 x 103 mm	Ag/AgCl	Epoxy Body	BNC + Banana	Porous Pin	0 to 80°C	Standard	89231-600

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Description	Range	D x L	Internal Reference	Body Material	Connector	Junction	Temperature Range	Sensor Type	Cat. No.
pH Electrode with Integrated Temperature Sensor	0 to 14 pH	12 x 103 mm	DJ Ag/AgCl ₂	Epoxy Body	BNC + Banana	Porous Pin	0 to 80°C	Standard	89231-602
pH Electrode	0 to 14 pH	12 x 103 mm	Ag/AgCl	Epoxy Body	BNC	Porous Pin	0 to 80°C	Standard	89231-604
pH Electrode	0 to 14 pH	12 x 103 mm	DJ Ag/AgCl ₂	Epoxy Body	BNC	Porous Pin	0 to 80°C	Standard	89231-606
pH Electrode with Integrated Temperature Sensor	0 to 14 pH	12 x 170 mm	Ag/AgCl	Polycarbonate Body	MP5 ¹	Porous Pin	0 to 80°C	Standard	89231-608
pH Electrode with Integrated Temperature Sensor	2 to 14 pH	12 x 170 mm	Ag/AgCl (with Sleeve)	Glass Body	MP5 ¹	Open	0 to 80°C	Standard	89231-610
pH Electrode with Integrated Temperature Sensor	0 to 14 pH	12 x 170 mm	Ag/AgCl (with Sleeve)	Glass Body	MP5 ¹	Annular Porous Ring	0 to 100°C	Standard	89231-612
Conductivity Electrodes									
Conductivity Electrode with Integrated Temperature Sensor; 1.0 cm ⁻¹ Cell Constant; 2-pole Cell	up to 100 mS/cm	12 x 103 mm		Polypropylene and Epoxy Body	RJ45		-5 to 80°C	Platinum	89231-614
Conductivity Electrode with Integrated Temperature Sensor; 1.0 cm ⁻¹ Cell Constant; 2-pole Cell	10 µS to 200 mS	18 x 134 mm		Epoxy Body	RJ45		0 to 100°C	Graphite	89231-616
Conductivity Electrode with Integrated Temperature Sensor; 0.55 cm ⁻¹ Cell Constant; 3-pole Cell	up to 200 mS/cm	12 x 103 mm		Polypropylene and Epoxy Body	RJ45		-5 to 80°C	Platinum	89231-618
Conductivity Electrode with Integrated Temperature Sensor; 1.0 cm ⁻¹ Cell Constant; 3-pole Cell	0.2 to 200,000 µS/cm	12 x 170 mm		Polycarbonate Body	MP5 ¹		-10 to 80°C	Platinum	89231-620
Conductivity Electrode with Integrated Temperature Sensor; 0.3 cm ⁻¹ Cell Constant; 2-pole Cell	5 to 50,000 µS/cm	12 x 170 mm		Titanium Body	MP5 ¹		0 to 80°C	Titanium	89231-622
ISE Electrodes									
Refillable Ammonia ISE Electrode	0.06 to 17,000 mg/L NH ₃	12 x 149 mm	DJ Ag/AgCl ₂	Epoxy Body	BNC	Annular Porous Ring	0 to 50°C	Replaceable Gas-Sensing Membrane Module	89231-628
Refillable Sodium ISE Electrode	0.02 to 23,000 mg/L Na ⁺	12 x 103 mm	DJ Ag/AgCl ₂	Glass Body	BNC	Porous Pin	0 to 50°C	Glass	89231-630
Chloride ISE Electrode	0.1 to 35,500 mg/L Cl ⁻	12 x 120 mm	DJ Ag/AgCl ₂	Epoxy Body	BNC	Annular Porous Ring	5 to 50°C	Solid-State Crystalline	89231-632
Fluoride ISE Electrode	0.01 to 19,000 mg/L F ⁻	12 x 120 mm	Ag/AgCl	Epoxy Body	BNC	Annular Porous Ring	5 to 50°C	Solid-State Crystalline	89231-634
Silver ISE Electrode	0.1 to 14,000 mg/L Ag ⁺	12 x 120 mm	DJ Ag/AgCl ₂	Epoxy Body	BNC	Annular Porous Ring	0 to 50°C	Solid-State Crystalline	89231-638
DO Electrodes									
Refillable ABS Dissolved Oxygen Electrode with Integrated Thermistor	0.03 mg/L - saturation 0.3% to saturation	12 x 120 mm			BNC + Banana		0 to 50°C	Platinum Cathode, Silver Anode with Replaceable Membrane Module	89231-624
Polarographic Dissolved Oxygen Probe	0.03 mg/L - saturation 0.3% to saturation	12 x 120 mm			MP5 ¹		0 to 50°C	Platinum Cathode, Silver Anode with Replaceable Membrane Module	89231-626
ORP/Redox Electrodes									
Refillable ORP/REDOX Electrode	± 2000 mV	12 x 130 mm	Ag/AgCl	Glass Body	BNC	Porous Pin	0 to 80°C	Platinum	89231-640
ORP/REDOX Electrode	± 2000 mV	12 x 130 mm	Ag/AgCl	Glass Body	BNC	Porous Pin	0 to 80°C	Platinum	89231-642
ORP/REDOX Electrode	±2000 mV	12 x 170 mm	Ag/AgCl	Polycarbonate Body	MP5 ¹	Porous Pin	0 to 80°C	Platinum	89231-644
Temperature Electrodes									
Temperature Electrode		7.5 x 103 mm		Glass Body	RJ9		-10 to 105°C	Glass	89231-650
Temperature Electrode		6 x 110 mm		Epoxy Body	RJ9		0 to 100°C	Steel	89231-652
Reference Electrodes									
Refillable Reference Electrode, Half Cell		7.5 x 103 mm	Red Rod	Glass Body	Banana	Porous Pin	-10 to 100°C		89231-646
Refillable Reference Electrode, Half Cell		12 x 103 mm	DJ Red Rod2	Glass Body	Banana	Porous Pin x2	-10 to 100°C		89231-648

DR 900 Multiparameter Handheld Colorimeter, Hach®

The hand-held DR 900 allows quick and easy access to your most-used testing methods. This colorimeter is waterproof, dustproof and field durable. With an intuitive user interface, easy data transfer abilities, and the ability to test up to 90 of the most commonly tested water methods, the DR 900 makes water testing in harsh field environments a little less challenging.

- Your Favorites at Your Fingertips
- Field Ready in Every Way Possible
- Intuitive User Interface
- Simple Data Communication
- Satisfies Your Core Testing Needs

CE marked.



Ordering Information: Includes two 1" glass sample cells marked at 10, 20 and 25 mL, two 1cm plastic sample cells, 1 x 16-mm COD/Test 'N Tube™ adapter, 4 AA alkaline batteries, printed multilingual instrument manual, instrument and procedure manuals on CD, and USB Mini to USB Cable.

Battery Life	6 months (typical) @ 5 readings a day / 5 days / week without backlight** ** Backlight usage will decrease battery life.
Battery Requirements	4, AA size alkali cells
Data Logger	500 measured values (Result, Date, Time, Sample ID, User ID)
Detector	Silicon Photodiode
Dimensions (H x W x D)	9.1 in x 3.8 in x 1.9 in (231 mm x 96 mm x 48 mm)
Display	Graphical display 240 x 160 pixels (Backlit)
Enclosure Rating	IP67 (vial cover closed)
Interfaces	USB type Mini IP67
Operating conditions	10 to 40°C (50 - 104 °F), max. 80 % relative humidity (non- condensing)
Operating Humidity	max 90 % relative humidity (non-condensing)
Operating Mode	Transmittance (%), Absorbance and Concentration
Operating Temperature	10 to 40 °C
Optical system	0 / 180 0 / 180 deg transmittance
Photometric accuracy	± 0.005 Abs @1.0 ABS Nominal
Photometric Linearity	± 0.002 Abs (0 - 1 Abs)
Photometric Measuring Range	0 to 2 Abs
Power supply	4 x AA size alkaline cells 4x NiMH rechargeable Battery* (*External charger required)
Reproducibility	± 0.005 Abs (0 - 1 A)
Sample Cell Compatability	1 inch round or 16 mm round (with adapter)
Source Lamp	LED
Spectral Bandwidth	15 nm filter bandwidth
Storage Conditions	-30 to 60 °C (-30 - 140 °F), max. 80 % relative humidity (non-condensing)
Stray Light	< 1.0 % at 400 nm
Temperature Range	0 to 50 °C (32 - 122 °F)
User Interface Languages	English, French, German, Italian, Spanish, Portuguese, Bulgarian, Chinese, Czech, Danish, Dutch, Finnish, Greek, Hungarian, Japanese, Korean, Polish, Romanian, Russian, Slovenian, Swedish, Turkis
User Programs	Custom programming 10
Wavelength Accuracy	± 1 nm (fixed, varies with model)
Wavelength Calibration	NA
Wavelength Range	420 nm, 520 nm, 560 nm, 610 nm
Wavelength selection	Automatic
Weight	1.32 lbs. (0.6 kg) with battery

Description	Supplier No.	Cat. No.
DR 900 Colorimeter	9385100	89496-614

Accessories		
Description	Supplier No.	Cat. No.
USB Cable with Mini USB Connector	LZV818	89496-616
Replacement Battery Cover	9386400	89496-618
Replacement Cap	9386300	89496-620

**ORION® AQUAfast® IV
Colorimeter, Thermo Scientific**



This advanced colorimeter stores up to 189 preprogrammed methods and features a simple interface with displays for concentration, absorbance, or percent transmittance. The Auto-ID™ feature automatically identifies the species to be measured using the Auto-Test™ reagents and then selects the method, wavelength, and reaction timer. The Auto-ID™ feature also ensures the reagent is matched to the method. The Auto-Test™ reagent cuvettes are specially designed for the colorimeter and premeasured.

The colorimeter also allows custom methods using up to five data points, customized calibration, uploading of most current programs, and storage of ten custom methods in memory. A datalog of up to 100 points with time and date tags can be downloaded via the RS-232 cable. The unit is waterproof to IP67 standards, allowing immersion in water to a depth of 1m for 1 hour without any water incursion. In addition to the Auto-Test™ cuvettes, the colorimeter also accepts round cuvettes with diameters of 13, 16, and 24mm.

Ordering Information: Manufacturer's two-year warranty.

Description	Measurement Range	Supplier No.	Cat. No.
Auto-Test Reagents			
Nitrate 3 (as NO ₃), HR	5.00-60.0 mg/L	AC4007	CA14217-848

Accessories			
Description	Supplier No.	Cat. No.	
Cable, RS-232	AQ4CBL	14217-922	

**Densito 30PX Portable Specific Gravity/
Density Meter, METTLER TOLEDO®**



Ideal for petroleum products, vegetable oils, cosmetics, detergents, beverages, sugar solutions, and organic and nonorganic liquids. Measures density and specific gravity at a measured temperature. Temperature compensation coefficient is programmable for measuring a wide variety of samples. Temperature compensated density values according to API may be displayed as API degrees or as density (g/cm³). Factor calibration is automatic, based on pure water. Unit can store up to 1100 measurement results that can be transmitted to an external printer or computer by infrared interface (IR adapter required, sold separately). To help fulfill GLP regulations the unit features a built-in clock and a user-defined identification name of up to 10 letters and/or numbers. This identification name, along with the time and date when the measurements were performed are transmitted together with the test results. Backlit LCD displays many different measurement units: °C/°F, density/specific gravity, API degrees, BRIX, % alcohol, % H₂SO₄, °Baumé, °Plato, proof, and user-defined units. Backlit display function can be activated to illuminate the display for 10 seconds following the last keystroke. The meter is water-resistant and the measuring cell features a seal that prevents leaks. Uses two AAA batteries (sold separately).

Density Accuracy	±0.001 g/cm ³
Density Range	0 to 2 g/cm ³
Density Resolution	0.0001 g/cm ³
Temperature Accuracy	±0.5°C
Temperature range	0 to 40°C (32 to 104°F)
Temperature Resolution	0.1°C

Description	Supplier No.	Cat. No.
Densito 30PX Meter	51324450	CA11276-896

Accessories		
Description	Supplier No.	Cat. No.
Memo Paper	51324501	CA11278-732

Vapodest Distillation Systems, Gerhardt

Vapodest distillation systems provide rapid steam distillation of Kjeldahl digestion solutions, all physical separation of water steam soluble substances, and all volatile acids. Another possible application is the determination of alcohol.



The Vapodest 20s semi-automatic system is the basic model for laboratories with low sample throughput. Ideal for alcohol, phenol, and cyanide distillations. Programming includes automatic NaOH addition and variable steam power from 40 to 100% for varying applications.

The Vapodest 30s incorporates all of the Vapodest 20s features, plus fulfilling all the parameters for Kjeldahl chemical additions, including automatic addition of H₂O and aspiration of sample residues.

In order to ensure error-free distillation process, all available functions are continuously monitored by the microprocessor. Both systems have digital displays that show all program steps, as well as nine different error messages. The chemical-resistant touch pad programming of each facilitates operation and includes settings for reaction time, distillation times, and 40 to 100% programmable steam power. Manual intervention is possible at any time during the distillation process.

Energy-saving stand-by mode switches on automatically when unit is not in use, maintaining full steam power while minimizing the waste of cooling water. Tube sensing mechanism ensures that distillation will not start until tube is inserted correctly. Steam generator shuts down in event of over-pressure. Plastic housing is chemical-resistant. Systems accept either 250–750 mL Kjeldahl flasks with wide-neck openings or the 100–800mL Kjeldatherm digestion tubes.

Ordering Information: Storage tanks are available for the Vapodest 20s (2x20L) and Vapodest 30s (2x30L). Digestion systems with other voltages are available; contact your VWR sales representative for more information.

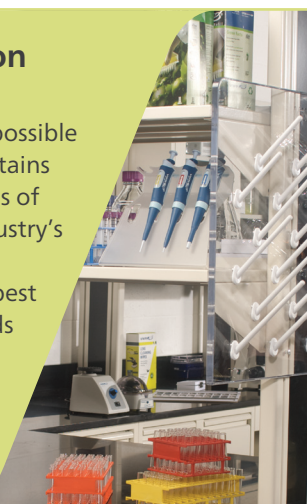
Dimensions	44W x 34D x 69H cm (17 ^{5/16} x 13 ^{7/16} x 27 ^{5/32} ")
Electrical	115V, 60Hz, 1600W
Shipping Weight	67 kg (148 lbs.)

Description	Supplier No.	Cat. No.
Vapodest 20s	12-0133	14214-440
Vapodest 30s	12-0138	14214-442

Accessories		
Description	Supplier No.	Cat. No.
Digestion Tube, 400 mL	12-0308	14214-492
Kjeldahl Flask, 500 mL	12-0313	14214-498
Viton® Cone, Micro 75–100 mL	12-0352	14214-514
Viton® Cone, Macro 250–800 mL	12-0351	14214-516

**Comprehensive Selection
of Products**

To offer our customers the best possible selection of products, VWR maintains strategic alliances with thousands of manufacturers. We offer the industry's widest, most objective range of cost-efficient products with the best support, and introduce thousands of new products every year to fulfill innovative requests. To order, call **1.800.932.5000** or visit **ca.vwr.com**.



Sotherm Rapid Extraction Units, Gerhardt

Ideal for the fast, reliable determination of the fat content in cereal products, dairy products, meat products, chocolate and cacao products, oil and oilseeds, and fruits. Also for determination of fat in feed, and lipids in egg and egg products. These extractors are also ideal for the determination of pollutants in environmental samples. Pollutants that can be determined include mineral oil in rocks, oil and lubricants, pesticides, phenoles (PCB), dioxine, extractable organic halides (EOX), plasticisers and additives in plastics and rubber, fiber and textile coatings, explosives in residual waste, coatings of fertilizers, and PAH (poly aromatic hydrocarbons).

The Multistat control unit can be used to control and monitor up to four individual extraction units. This microprocessor-controlled unit has a user-friendly LC display, an easy-to-clean chemical-resistant keypad, and language menus in German, English, or French. The control unit continuously monitors all functions. In case of malfunction, the extraction process is suspended at once and the beakers are lifted off the hotplate. All solvents may be used in these units, which allows for a variety of applications. Each extraction unit can be used independently, thus different types of samples can be extracted with various solvents at the same time.

The control unit is used to set the program for the individual extraction units. This program is stored in the extraction unit until it is replaced by another. Thanks to this feature, simply pressing the "RUN" key can start the basic units. Alphanumeric names can be assigned to stored programs for the compilation of a comprehensive program library. The unit can be programmed to automatically start or stop, allowing for unattended operation.

Safety features of the extraction units include cooling water and air monitoring features, audible and visible warnings for system problems, and an over temperature cutout that prevents the flash point of the solvent from being exceeded. The low amount of solvent needed and solvent recovery system help to reduce running costs. Extraction units have only three moving parts and no internal seals, which means that no routine maintenance is required. Units feature a spark-proof heating block and a safety glass door that opens and closes automatically at the start or end of a program. The solvent tank features an optical level sensor that helps prevent overfilling. The beakers are illuminated which allows easy visual inspection of the extraction progress.

Ordering Information: Two-place units include 4 planar cut extraction beakers, 2 holders for extraction thimbles, twenty-five 33x80mm extraction thimbles, 1 pair of tongs, one 250g box of boiling stones, 1 insert rack for extraction beakers, and 1 set of connecting pipes. Four-place units include 8 planar cut extraction beakers, 4 holders for extraction thimbles, twenty-five 33x80mm extraction thimbles, 1 pair of tongs, one 250g box of boiling stones, 1 insert rack for extraction beakers, and 1 set of connecting pipes. Six-place units include 12 planar cut extraction beakers, 6 holders for extraction thimbles, twenty-five 33x80mm extraction thimbles, 1 pair of tongs, one 250g box of boiling stones, 1 insert rack for extraction beakers, and 1 set of connecting pipes.



Maximum Beaker Volume	140 mL (4.7 oz.)
Maximum Temperature	300°C (572°F)
Minimum Water Pressure	0.3 bar
No. of Ports	2 RS-485 Interface
Water Consumption	0.5-3.5 L/min.

Description	Electrical	W x D x H	Shipping Weight	Supplier No.	Cat. No.
Extraction Unit, Two-Place	115V, 50/60Hz, 400W	25 x 41 x 58 cm (9 ⁷ / ₈ x 16 ¹ / ₈ x 22 ⁷ / ₈ "	28 kg (61.7 lbs.)	13-0017	14236-080
Extraction Unit, Four-Place	115V, 50/60Hz, 800W	40.5 x 41 x 58 cm (16 x 16 ¹ / ₈ x 22 ⁷ / ₈ "	36.5 kg (80.5 lbs.)	13-0019	14236-088
Extraction Unit, Six-Place	115V, 50/60Hz, 1200W	56.5 x 41 x 58 cm (22 ¹ / ₄ x 16 ¹ / ₈ x 22 ⁷ / ₈ "	43 kg (94.8 lbs.)	13-0021	14236-096
Control Unit	115V, 50/60Hz, 6W	18 x 26 x 12.5 cm (7 ¹ / ₈ x 10 ¹ / ₄ x 4 ⁷ / ₈ "	2.5 kg (5.5 lbs.)	13-0023	14236-102

Accessories		
Description	Supplier No.	Cat. No.
Extraction Beaker, 46 x 130 mm	13-0052	14236-108
Extraction Thimble, 33 x 80 mm	13-0054	14236-110
Extraction Thimble, 33 x 94 mm	13-0057	14236-112
Extraction Thimble, 25 x 70 mm	13-0055	14236-114
Extraction Thimble, 40 x 85 mm	13-0056	14236-116
Thimble Holder, 33 mm	13-0062	14236-118
Thimble Holder, 25 mm	13-0061	14236-120
Thimble Holder, 40 mm	13-0063	14236-122
Thimble Holder, Micro, 33 mm	13-0059	14236-124
Thimble Holder, Micro, 25 mm	13-0060	14236-126
Insert Rack, Macro	13-0073	14236-130

Custom Manufacturing

In addition to the products listed in our catalogue, Anachemia has the manufacturing capabilities to produce almost any chemical formulation or custom package size or type that your organization may need. Whether your goal is to reduce your staff's time spent preparing formulations used in your lab or to have product pre-packaged in single dose units, Anachemia's experienced chemical manufacturing personnel can assist you.

Contact us at **(800) 361-0209** to request a quote on custom chemical products.



EM QUANT® Ion-Specific Test Strips, EMD Millipore

Fast, reliable 76x6.4mm (3x1/4") flexible strips. Strips have one or more reaction pads affixed that have been sensitized with reagents, buffers, and masking agents to function (in most cases) without auxiliary reagents over the entire pH range. Tests with EM QUANT® strips are completed in seconds: dip, remove, and compare color with the color scale provided. Strips have been extensively tested for performance under a multitude of influences from other metal and ions.



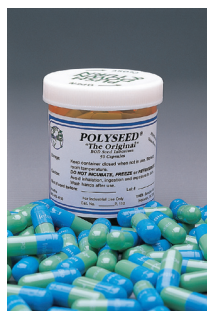
Sensitivity Range	Type	No. of Strips	Supplier No.	Cat. No.
10 to 100 mg/L	Calcium, with Auxiliary Reagents	60	10083-1	CADM10083-1
3 to 100 mg/L	Chromate, with Auxiliary Reagents	100	10012-1	CAM10012-01
10 to 400 mg/L	Ammonium, with Auxiliary Reagents	100	10024-1	CAM10024-01
20 to 500 mg/L	Lead, with Auxiliary Reagents	100	10077-1	CAM10077-01

Polyseed® B.O.D.5 Seed Inoculum

Polyseed® is an EPA-accepted, commercially available B.O.D. seed inoculum. It is a broad spectrum of specialized bacteria blended specifically to be used as a seed population for the Biochemical Oxygen Demand test as conducted according to Standard Methods for the Examination of Water and Wastewater. Degrades both municipal and industrial wastes.

Polyseed®-NX CBOD contains an additive for the inhibition of ammonia nitrogen in a wastewater sample. Additive amount is comparable to that stated in Standard Methods as necessary for sufficient inhibition.

Shelf life is one year.



Description	Supplier No.	Cat. No.
Polyseed®	P-110	66130-430
Polyseed®-NX CBOD	P-210	66130-432

Selenium Reagent Mixture

GR (for the determination of nitrogen acc. to Wieninger). For Kjeldahl Analysis and Nitrogen Determination.

Size	Packaging	Supplier No.	Cat. No.
1 kg	Plastic Bottle	1.08030.1000	CA1.08030.1000
5 kg	Plastic Bottle	1.08030.5000	CA1.08030.5000

Kjeldahl Tablets for Wieninger Method, EMD Millipore

For Wieninger method. For Kjeldahl Analysis and Nitrogen Determination.

Size	Packaging	Supplier No.	Cat. No.
5 g x 250 Tablets	Plastic Can	1.10958.0250	CA1.10958.0250
5 g x 1000 Tablets	Plastic Bottle	1.10958.1000	CA1.10958.1000
3.5 g x 250 Tablets	Plastic Can	1.17958.0250	CA1.17958.0250

Kjeldahl Tablets, Free of Mercury and Selenium, EMD Millipore

Free of mercury and selenium. For Kjeldahl Analysis and Nitrogen Determination.

Size	Packaging	Supplier No.	Cat. No.
5 g x 250 Tablets	Plastic Can	1.15348.0250	CA1.15348.0250
5 g x 1000 Tablets	Plastic Bottle	1.15348.1000	CA1.15348.1000
3.5 g x 250 Tablets	Plastic Can	1.18348.0250	CA1.18348.0250

Kjeldahl Tablets, Missouri Catalyst, EMD Millipore

Missouri catalyst. For Kjeldahl Analysis and Nitrogen Determination.

Size	Packaging	Supplier No.	Cat. No.
5 g x 250 Tablets	Plastic Can	1.16469.0250	CA1.16469.0250
5 g x 1000 Tablets	Plastic Bottle	1.16469.1000	CA1.16469.1000
3.5 g x 250 Tablets	Plastic Can	1.18469.0250	CA1.18469.0250

Metrical® Black Membrane Disc Filters, Pall® Life Sciences

Ideal for the isolation and enumeration of yeast and mold colonies from water and beverages using the Membrane Filter Technique referenced in Standard Methods for the Examination of Water and Wastewater. Dark background provides an excellent contrast for counting opaque colonies and light colored particulate.

Made of modified polysulfone. White grid on membrane is composed of a dot pattern that does not inhibit growth of yeast or mold colonies.



Diameter	Pore Size	Sterile	Supplier No.	Cat. No.
4.7 cm	0.8 µm	Yes	66587	CA28149-468
4.7 cm	0.45 µm	Yes	66585	CA28149-472

VWRCATALYST™ Lean Business Process Consulting

The VWRCATALYST team of Lean Six Sigma-trained Business Process Consultants can help you move faster, control costs, and drive quality. Our process has evolved from decades of collaboration with the scientific community, and has proven to optimize laboratory and production processes, such as procurement, inventory management, scientific research support, and more. View our library of Success Stories today at ca.vwr.com/vwrcatalyst.



Single-Sample Osmometer, Model 3250, Advanced Instruments

This single-sample osmometer utilizes the freezing-point depression method with 0.25mL samples, making it ideal for many clinical and industrial applications. An on-board printer records test results with sample ID and instrument status. Microprocessor control facilitates automatic operation and calibration, as well as statistical analysis and management of the setup menu and troubleshooting routines. A supervisor key limits access to advanced functions.

Other features include multi-language capability (choose from nine languages), a frost-free cooling chamber that eliminates most routine maintenance, and an easily accessible sample probe. Software upgrades can be uploaded through the serial port. ETL-C listed. CE marked.

Ordering Information: Manufacturer's one-year limited warranty on workmanship and all parts except glass, plastic, and parts warranted by their makers. For an optional barcode scanner, contact your VWR sales representative.



Dimensions	33W x 45.7D x 40.6H cm (13 x 18 x 16")
Electrical	100–130V or 200–250V, 50/60Hz, 150W
Humidity Range	5 to 80% RH, non-condensing
Linearity	Within ±0.5% of straight line
Operating Temperature	18 to 35°C (64 to 95°F)
Range	0–4000 mOsm/kg H2O
Repeatability	±2 mOsm/kg H2O (1 S.D.) from 0–400 mOsm/kg H2O, ±0.5% (1 S.D.) from 400–4000 mOsm/kg H2O
Sample volume	0.25 mL
Shipping Weight	17.7 kg (39 lbs.)
Test Time	<2 min. on low

Description	Supplier No.	Cat. No.
Single-Sample Osmometer	3250	CA12000-630

Accessories		
Description	Supplier No.	Cat. No.
100mOsm Calibration Standard, 5 mL	3LA011	52197-442
500 mOsm Calibration Standard, 5 mL	3LA051	52197-445
Heat Transfer Fluid, 160 mL	3DA811	CA52197-434
Clintrol™ 290 Reference Solution, 5 mL Ampules	3LA029	52197-076
Sample Tubes, 0.2 mL	3LA825	52197-167
Osmolality Linearity Set, 5 Level, 10 x 5 mL	3LA028	52198-164

Advanced® Multi-Sample Osmometer, Model 2020, Advanced Instruments

This osmometer provides accurate measurements for clinical, industrial, and research applications. Results are obtained by using the freezing-point depression method, which determines total concentration. The on-board printer connects easily to an external printer, computer, or barcode scanner. Instrument memory allows electronic storage and retrieval of up to 200 test results.

The unit features automated sample handling of up to 20 samples at once and on-board statistical analysis (mean, standard deviation, and coefficient of variation functions). An integral microprocessor automatically makes calibration adjustments at the push of a button. Other features include multi-language capability (choose from English, Dutch, French, German, Italian, Portuguese, Spanish, and Swedish), and stat capability, which allows a test sequence to be interrupted to run a stat test without affecting the workflow. Software upgrades can be easily uploaded via the integral RS-232 interface port.

ETL-C listed. CE marked.

Ordering Information: Manufacturer's one-year limited warranty on workmanship and parts.



Dimensions	40.6W x 31D x 25.1H cm (16 x 12 1/4 x 9 7/8")
Electrical	100 to 240V, 50/60Hz, 80W
Linearity	<1% from straight-line between 50 and 850 mOsm/kg H2O; <1.5% above 850 mOsm/kg H2O
Range	0–2000 mOsm/kg H2O
Relative Humidity	30 to 80% (non-condensing)
Repeatability	±3 mOsm/kg H2O (1 S.D.) between 0 and 400 mOsm/kg H2O; ±0.75% mOsm/kg H2O (1 S.D.) between 400 and 2000 mOsm/kg H2O
Resolution	1 mOsm/kg H2O
Sample Volume	20 µL
Shipping Weight	15.4 kg (34 lbs.)
Temperature	18 to 35°C (64 to 95°F)
Test Time	90 sec. per sample (typical)

Description	Supplier No.	Cat. No.
Model 2020 Osmometer	2020	CA12000-628

Accessories		
Description	Supplier No.	Cat. No.
Probe Wiping Rings	202840	12000-632
Sample Tubes	202825	12000-634
Osmolality Linearity Set, 5 Level, 10 x 5 mL	3LA028	52198-164

GN Metrical® Membrane Disc Filters, Pall® Life Sciences

The GN-6 membrane is certified for the microbiological analysis of potable, waste, process, and natural waters in accordance with the Membrane Filter Technique referenced in Standard Methods for the Examination of Water and Wastewater. Ideal for isolation and enumeration of total and fecal coliforms, E. coli, fecal Streptococcus, fungi, and other heterotrophic bacteria. The GN-4 membrane is suitable for air monitoring applications and meets NIOSH requirements for airborne metals and asbestos monitoring.

GN-6 and GN-4 Metrical® membrane filters are made of mixed cellulose esters. GN-6 grids have a unique dot grid pattern that provides easy quantification of bacterial colonies without growth inhibition or enhancement. GN-4 membranes dissolve completely using standard digestion procedures, and clear completely for minimal interference in fiber counting.

Ordering information: GN-6 is available sterile, individually packaged (except filter model 60016) or nonsterile, bulk packed. GN-4 is available in nonsterile bulk packs or cavities, with or without support pads.



Description	Diameter	Pore Size	Sterility	Type	Gamma-Irradiated	Packaging	Supplier No.	Cat. No.
GN-6 Metrical Membranes								
GN-6 Metrical Filter, 0.45 µm	47 mm	0.45 µm	Gamma-Irradiated	Grid	Yes	Individually Wrapped	66278	CA28148-926
GN-6 Metrical Filter, 0.45 µm	47 mm	0.45 µm	Gamma-Irradiated	Grid	Yes	Individually Wrapped	66068	CA28148-813
GN-6 Metrical Filter, 0.45 µm	47 mm	0.45 µm	Gamma-Irradiated	Grid	Yes	Individually Wrapped	66191	CA28148-815



MICROBIOLOGY

HYGIENE MONITORING

EQUIPMENT & INSTRUMENTS

CONSUMABLES & SUPPLIES

MEDIA & REAGENTS

RAPID TESTS

Sentino™ Filter Dispenser, Pall Life Sciences

The Sentino™ Filter Dispenser is used for the microbiological testing of aqueous samples using the Membrane Filter (MF) technique. It is designed to aseptically dispense one disc of membrane at the press of a button. The simple design is easy to load and maintains alignment of the refill pack for a reliable dispense time after time. The compact size and minimized height uses less bench space. The dispenser can be run on main power or charge the battery for a more portable option. The compact size with the rechargeable battery provide more flexibility in arranging the workspace for optimal workflow and efficiency.

The Dispenser Refill Pack is the smallest refill pack on the market. It takes up less storage space and results in less packaging waste to dispose off. The refill pack contains the most filters (200 discs) of any refill pack on the market to minimize the frequency of reloading the dispenser.

The Sentino™ Filter Dispenser is part of the Sentino™ Microbiology System.

CE Marked

Ordering Information: 100 - 240 VAC, supplied with (1) power transformer, (1) power cord with NEMA 5-15P plug , and a user guide CD. For use in North America or geographies using a NEMA 5-15P plug.



Description	Supplier No.	Cat. No.
Sentino™ Filter Dispenser	13182	CA30617-196

Accessories			
Description	Details	Supplier No.	Cat. No.
Dispenser Refill Pack, GN-6 Metrical®	Mixed Cellulose Ester; Pore Size 0.45 µm	68121	CA30617-198
Dispenser Refill Pack, Supor®	Polyethersulfone; Pore Size 0.2 µm; Diameter 47 mm; White; Gridded	68123	CA30617-200
Dispenser Refill Pack, Metrical® Black	Modified Polyethersulfone; Pore Size 0.45 µm; Diameter 47 mm; Black; Gridded	68124	CA30617-202
Dispenser Refill Pack, Metrical® Black	Modified Polyethersulfone; Pore Size 0.8 µm; Diameter 47 mm; Black; Gridded	68125	CA30617-204

Sentino™ Magnetic Filter Funnels, Pall® Life Sciences

For vacuum filtration of liquids, especially for the analysis of aqueous samples for microbiological and particulate contamination using the Membrane Filter (MF) Technique. The Sentino™ Magnetic Filter Funnel is designed to be used with the Sentino™ Microbiology Pump.

Dual magnets ensure a tight, no-leak seal between the funnel cylinder and base, eliminating the need for cumbersome clamps. The design allows one-handed operation and prevents possible twisting and tearing of the filter membrane. A ridge on the base guides and holds membrane in position. Forcep access points provide easy retrieval of the filter. Durable, chemically resistant polyphenylsulfone plastic construction resists breaking. The cylinder is marked with external graduations for ease in measuring sample volume and to ensure a smooth inner surface for rinsing. Washable, autoclavable, and UV compatible.

Ordering Information: Filters not included. The Sentino™ Magnetic Filter Funnel is part of the Sentino™ Microbiology System.

Search Sentino™ Microbiology Pump for information on a unique pump designed to simplify MF Technique and provide superior contamination control. Search Sentino™ Filter Dispenser for information on Pall Life Sciences automatic membrane dispenser. Contact your VWR representative for more information.



Description	Capacity	For Filter Size	Supplier No.	Cat. No.
Filter Funnel Assembly	300 mL	47 mm dia.	4273	CA30617-186
Filter Funnel Assembly	500 mL	47 mm dia.	4277	CA30617-188

Accessories			
Description		Supplier No.	Cat. No.
Base, 47 mm with Support Screen		4279	CA30617-190
Adapter, for using Sentino Magnetic Filter Funnel with Sentino® Microbiology Pump		4283	CA30617-192
Tubing, Replacement; for use with the Sentino™ Microbiology Pump; 24" length, 10/pk.		4285	CA30617-194

Custom Manufacturing

In addition to the products listed in our catalogue, Anachemia has the manufacturing capabilities to produce almost any chemical formulation or custom package size or type that your organization may need. Whether your goal is to reduce your staff's time spent preparing formulations used in your lab or to have product pre-packaged in single dose units, Anachemia's experienced chemical manufacturing personnel can assist you.

Contact us at **(800) 361-0209** to request a quote on custom chemical products.



Sentino™ Microbiology Pump, Pall Life Sciences

The Sentino™ Microbiology Pump is intended for microbiological evaluations of aqueous samples by Membrane Filter (MF) Technique. This unique pump is designed to use peristaltic action to draw the sample through the filter and send filtrate directly to drain or waste. The compact Sentino™ Microbiology Pump simplifies the time it takes to prepare for membrane filtrations, frees up more lab space, simplifies testing, minimizes equipment maintenance, and provides a level of contamination control often overlooked within a lab.

The disposable Fluid Path is made specifically for use with the Sentino™ Microbiology Pump. The unique peristaltic action of the Sentino™ Pump is designed around a disposable Fluid Path that can easily be replaced before biofilm build-up can cause contamination.

CE marked.

Ordering Information: 100–240 VAC, 47–63Hz.



Sentino® Filter Funnel with the Sentino Microbiology Pump

Description	Height	Length	Width	Weight	Supplier No.	Cat. No.
Sentino™ Microbiology Pump, Power cord with NEMA 5-15P plug	4.1"	5.4"	3.7"	1.5 lb	13180	CA89183-082

Accessories		Supplier No.	Cat. No.
Description			
Fluid Path Replacements for Sentino Microbiology Pump		4861	CA89183-086

Corning® Coliform Water Test Sample Container, Corning®

Useful in testing for the presence of coliform. Manufactured from pure polypropylene in a sterile-by-process environment. The one-piece container has attached lid to reduce chance of contamination. Locking arrow assures sterility has not been compromised. The EPA fill line of 100mL ±2.5% makes it easy to use. A container with a sodium thiosulfate tablet is available to save lab prep time and expense. Leak-tight when sealed properly. As an added benefit, the tie-down prevents accidental opening and serves as a custody seal. Meets EPA requirements.



Ordering Information: Includes 100 containers per case. Comes with sample labels and instructions.

Description	Capacity	Supplier No.	Cat. No.
Coliform Water Test Sample Container with Thiosulfate Tablet	100 mL	1700-100	66175-105

Filter Forceps, Pall® Life Sciences

For easy placement of membrane filters into filter funnels or petri dishes. Tips have a flat, smooth surface to avoid membrane filter damage. Stainless steel construction with polypropylene finger grips for a comfortable and secure hold. Autoclavable.



Description	Supplier No.	Cat. No.
Forceps	51147	CA30033-042
Forceps, Multi-Colored	4690	CA34181-102

MAS-100Eco™ Air Sampler System, EMD Millipore

This unit is specifically designed for monitoring microbial air quality in the food and beverage industries to ensure a safe manufacturing environment. The MAS-100Eco™ is lightweight, has an adjustable head, and uses standard 100mm petri dishes. It includes a built-in calibration reminder that can be set between 1 and 12 months, and calibration is made easy with the DA-100™ NT digital anemometer (EM4.86640.0001). The system has an aspiration rate of 100L/min. and will sample a full cubic meter of air in 10 minutes. Collection volumes of 10, 20, 50, 100, 200, and 500L are preset for selection and can be deactivated or reactivated as needed. A specific volume between 0 and 1000L can also be selected. The unit features a programmable sampling start delay of up to 60 minutes, which helps ensure an accurate reading by eliminating the need to re-enter sterile areas.

UL listed. CE marked.

Ordering Information: MAS-100Eco™ air sampler system includes aluminum perforated lid with dustcover, two size C rechargeable batteries, mains charger, Allen-key, plastified correction table, calibration certificate, and operator's manual.



Airflow	100 L/min.
Diameter	11 cm (4 ¹ / ₂ ")
Height_NA	18 cm (7") with handle, 14 cm (5 ¹ / ₂ ") without handle
Weight	1.4 kg (3.1 lbs.)

Description	Supplier No.	Cat. No.
MAS-100Eco™ Air Sampler System	1.09227.0002	CA1.09227.0002

Accessories		Supplier No.	Cat. No.
Description			
Replacement Aluminum Dustcover for Collection Head		1.09084.0002	CAM09084-01
Battery Pack		1.09087.0002	CAM09087-01
Replacement Aluminum Perforated Lid for Collection Head		1.09088.0002	CAM09088-01

BD Falcon™ SWUBE™ Collection and Transport System, BD Diagnostics

Combination swabs and tubes provide a simple and effective method of collection, transporting, protecting, and storing specimens. Sterile, individually wrapped tubes are provided without media, but can be used with a wide array of reagents, media, or solutions. The 14.6–15cm (5³/₄–6") long shafts reach touch sampling sites. Available with screw caps or friction caps.

Description	Cap Type	Head Type	Tube Size	Supplier No.	Cat. No.
SWUBE™ Applicator and Tube	Screw	Single Cotton	16 x 150 mm	220210	CA-90001-094
SWUBE™ Applicator and Tube	Screw	Single Polyester	16 x 150 mm	220710	CA-90001-128



EnviroTrans™, Saline 0.85%, 0.5 mL Swab, Hardy Diagnostics

A ready-to-use swab & tube pre-filled with your choice of five solutions to fit your specific needs! Collect and transport your environmental sample with efficiency and ease. Remove the cap attached to the swab. Collect sample by swabbing the surface, recap, and send to the lab. A 15 x 75 mm polypropylene tube pre-filled with 5mls of Letheen Broth. A dacron swab is affixed to a screw cap for easy handling. The entire unit is terminally sterilized. Excellent for detection or enumeration of microorganisms from environmental surfaces or equipment. Ideal for your HACCP program!

Description	Size	Packaging	Supplier No.	Cat. No.
D/E Neutralizing broth	5 mL	Swab	SRK45	CA89407-470
Neutralizing saline	5 mL	Swab	SRK55	CA89407-512
Letheen broth	5 mL	Swab	SRK25	CA89407-672
Neutralizing buffer	2 mL	Swab	SRK20	CA89407-764
Neutralizing buffer	5 mL	Swab	SRK15	CA89407-766
Saline 0.85%	0.5 mL	Swab	SRK05	CA89407-912
Saline 0.85%	2 mL	Swab	SRK30	CA89407-914
Saline 0.85%	5 mL	Swab	SRK35	CA89407-916

Calgiswab® Mini Nasopharyngeal Swab, Puritan Medical Products

This specialty applicator is tipped with calcium alginate fiber, which can be inhibitory to many strains of bacteria. It is ideal for specimen collection for testing and screening, as well as small cavities and wound care. It has a flexible aluminum handle and comes individually wrapped.

Handle Length	Handle Width	Head Length	Head Width	Sterility	Supplier No.	Cat. No.
136.5 mm (5.374")	0.89 mm (0.035")	11.1 mm (0.437")	1.981 mm (0.078")	Sterile	25-800 A 50	CA95041-302

BD RODAC Contact Plate with Snap Lid, BD Diagnostics

The BD RODAC SNAP LID is a RODAC contact plate equipped with a unique SNAP LID locking mechanism to provide additional security during sampling and transport from a controlled environment to the laboratory.

The RODAC SNAP LID has a latch on the base of the plate that engages the ridge on the lid of the plate to lock the plate. Withstands an accidental drop from the height of a bench-top workspace, ensures the integrity of the sample, prevents the dish from opening unintentionally, protects media from accidental cross contamination and improves stability during stacking and storage.



Media	Sterility	Packaging	Supplier No.	Cat. No.
RODAC SNAP LID Sterile TSA with Lecithin, Polysorbate 80 and Penicillinase	Sterile	Isolator Pack - Triple Wrapping And VHP resistant	215273	CA71003-762
RODAC SNAP LID Sterile TSA with Lecithin, Polysorbate 80 and Penicillinase	Sterile	Sterile Pack - Double Wrapping	215274	CA71003-764
RODAC SNAP LID TSA with Lecithin and Polysorbate 80	Sterile	Sterile Pack - Double Wrapping	215276	CA71003-768
RODAC SNAP LID Sterile DE Neutralizing Agar	Sterile	Sterile Pack - Double Wrapping	215280	CA71003-776
RODAC SNAP LID TSA with Lecithin and Polysorbate 80	Sterile	Isolator Pack - Triple Wrapping And VHP resistant	215285	CA71003-786

Consolidate Your Orders with VWR

Consolidating orders helps reduce deliveries which can help reduce emissions/fossil fuels, lower packaging waste, save paper and energy, and may also help manage receiving costs and freight charges. Call **1.800.932.5000** or visit ca.vwr.com/sustainability for more information.





VWR® B.O.D. Refrigerated Peltier Incubators, High Efficiency

New energy saving and environmentally friendly refrigerated incubators. Using innovative peltier cooling technology, the VWR refrigerated incubators offer a 78% reduction in energy consumption over traditional compressor based refrigerated incubators. These incubators meet APHA specifications for Biochemical Oxygen Demand (B.O.D.) and include a mechanical convection system to provide improved temperature uniformity, digital temperature controller with display, and over temperature limit control. The compressor free design creates a whisper quiet operation.

Independent over temperature thermostat and alarm. Incubator has a 1A (maximum) accessory outlet located inside the chamber. The power switch on the front panel

controls power to the accessory outlet. This outlet can power equipment such as magnetic stirrers, rockers, etc.

TUV, CE, UL, CSA.

Ordering Information: Three year parts and labor warranty (domestic).



No. of Outlets	One Internal
Shelf Weight Capacity	75 lbs. each
Temperature Uniformity	+/-0.5°C at 20°C

Description	Electrical	Bottle Capacity	Capacity	Exterior Dimensions	Interior Dimensions	No. of Shelves	Temperature Range	Cat. No.
Small BOD Incubator	100-120V, 50/60Hz, 360W	60 (BOD)	85 L (3 cu. ft.)	59.7 x 53.4 x 85.6 cm (23.5 x 21 x 33.7")	48.3 x 41.1 x 66.5 cm (19.0 x 16.2 x 26.2")	2	15°C to 40°C at 20°C Ambient	89510-738
Under Counter BOD Incubator	100-120V, 50/60Hz, 360W	120 (BOD)	185 L (6.5 cu. ft.)	76.2 x 80.1 x 85.1 cm (30.0 x 31.5 x 33.5")	64.7 x 60.9 x 46.9 cm (25.5 x 24.0 x 18.5")	2	15°C to 40°C at 20°C Ambient	89510-742
Large Capacity BOD Incubator	100-120V, 50/60Hz, 660W	300 (BOD)	546 L (19.3 cu. ft.)	76.2 x 80.1 x 176.6 cm (30.0 x 31.5 x 69.5")	64.7 x 60.9 x 138.4 cm (25.5 x 24.0 x 54.5")	5	15°C to 40°C at 20°C Ambient	89510-746



VWR® BOD Low Temperature Refrigerated Incubators

- Broad Temperature Range of -10 to 60°C (173L Model) or -10 to 50°C (566L Model) to cover the widest range of Refrigerated Incubator Applications Temperature Uniformity
- Microprocessor Control with Easy-to-Read Display shows actual Temperature within 0.1°C
- Push-Button Controls for Temperature Setpoint Selection
- Forced-Air Circulation delivers excellent Temperature Stability
- CFC-Free, Foamed Polyurethane Insulation prevents Heat Loss
- RTD Temperature Probe and protected Setpoint Mode prevent accidental Temperature Change
- Door Key Lock protects Samples from Unauthorized Access
- Efficient Design
- Easy-to-clean, corrosion-resistant Construction
- Compressor Relay conserves Energy
- Two-Year Warranty with Extended Warranty Packages Available



The 173L (6.1 cu. ft.) unit features economical undercounter design; high/low safety thermostat backups; three cooling modes simplify operation: high precision with cooling, high precision without cooling, and frost-free with variable cooling. Four adjustable leveling feet for stable setup. 2A outlet easily supports apparatus inside the unit.

The 566L (20 cu. ft.) unit is ideal for BOD applications and temperature settings at or below ambient. and holds up to 333 BOD bottles (300mL). Features an access port , temperature setpoint selection with high- and low-temperature protection and simple calibration. Safety relay and alarm LED alert to over/undertemperature conditions. RS-232 and recorder jacks for datalogging.

cCSAus listed.

Ordering Information: All shelves included. Comes with Two-Year Parts and Labor Warranty.

Electrical	Volume	Exterior Dimensions	Interior Dimensions	Temperature Range	Temperature Uniformity	Fluctuation	Temperature Setting Accuracy	Cat. No.
BOD Incubators								
115V, 60Hz, 9.5A	173 L (6.1 cu. ft.)	62D x 61W x 88H cm (24.5 x 24 x 34.5")	52D x 52W x 70H cm (20.5 x 20.5 x 28")	-10 to +60°C	1.0°C	± 0.2°C	±0.1°C	89508-420
115V, 60Hz, 7.0A	566 L (20.0 cu. ft.)	74D x 82W x 191H cm (29 x 32 x 75")	50.8D x 67.3W x 144.8H cm (20 x 26.5 x 57")	-10 to +50°C	±1°C at 20°C, ±0.5°C at 37°C	± 1.0°C	±0.5°C	89508-422

Refrigerated Incubators, Caron

Refrigerated incubators offer precise temperature control, making them the ideal choice for refrigerated storage. Incubators also serve a wide variety of related applications, such as laboratory refrigerators, pharmaceutical refrigerators for long-term storage of drug substances, temperature critical processes, temperature conditioning, and more. Loaded with environmentally friendly and customer convenient innovations, these incubators offer much more than typical competitive economy models.

Refrigerated incubators are available in 283L (10cu.ft.), 708L (20cu.ft.), and 934L (33cu.ft.) sizes. All models are designed to utilize a minimal footprint, enabling users to maximize laboratory floor or bench space. Incubators offer a full temperature range of 5 to 70°C (41 to 158°F). Multiple optional accessories are available, allowing cost-effective customization according to individual laboratory requirements.

Ordering Information: The 283L units are supplied complete with three shelves, the 708L units are supplied complete with four shelves, and the 934L units are supplied complete with five shelves. All shelves are constructed of Type 304 perforated, electropolished stainless steel.



Display Name	6011 Series	6041 Series	6021 Series
Exterior Dimensions	112.3W x 82.8D x 92.7H cm (44 ⁵ / ₃₂ x 32 ¹ / ₂ x 36 ¹ / ₂ "	90.2W x 84.6D x 228.9H cm (35 ¹ / ₂ x 33 ⁵ / ₁₆ x 90 ¹ / ₈ "	90.2W x 84.6D x 195.8H cm (35 ¹ / ₂ x 33 ⁵ / ₁₆ x 77 ³ / ₃₂ "
Interior dimensions WxDxH (mm)	58.4W x 65.5D x 75.7H cm (23 x 25 ¹³ / ₁₆ x 29 ¹³ / ₁₆ "	81.3W x 68.6D x 166.9H cm (32 x 27 x 65 ²³ / ₃₂ "	81.3W x 68.6D x 133.9H cm (32 x 27 x 52 ²³ / ₃₂ "
Model	6011 Series	6041 Series	6021 Series
No. of Shelves	3 Standard (15 Maximum)	5 Standard (31 Maximum)	4 Standard (25 Maximum)
Temperature Control		±0.1°C	
Temperature Uniformity		±0.3°C	

Electrical	Model	Volume	Temperature Range	Shipping Weight	Supplier No.	Cat. No.
115V, 60Hz, 12A	6011-1	283 L (10 cu. ft.)	5 to 70°C (41 to 158°F)	225 kg (495 lbs.)	6011-1	27475-010
115V, 60Hz, 16A	6041-1	934 L (33 cu. ft.)	5 to 70°C (41 to 158°F)	363 kg (800 lbs.)	6041-1	89173-324
115V, 60Hz, 16A	6021-1	708 L (25 cu. ft.)	5 to 70°C (41 to 158°F)	352 kg (775 lbs.)	6021-1	97014-254

Accessories		Supplier No.	Cat. No.
Description			
Wire rod shelf kit to replace standard shelving on 33 cu. ft. series Incubators; Includes 5 stainless steel wire rod shelves		SHLF316	89173-380
Heavy-Duty Laboratory Equipment Cart with locking casters for 10 cu. ft. unit. Solid aluminum with additional under-shelf storage. Holds up to 800 lbs.		CART102	89174-590
Defrost System for Model 6011 Refrigerated Incubators. Operates down to 0°C.		DEFR302	89174-592
Fresh Air Ports for Model 6011 Refrigerated Incubators		PORT303	89174-604
Stainless Steel Work Table with cabinet base and sliding doors for Model 6011 Refrigerated Incubators. Stainless steel top with adjustable legs and under-shelf		TABL101	89174-614
Defrost System for Model 6021 and 6041 Refrigerated Incubators. Operates down to 0°C.		DEFR301	97014-186
Wire rod shelf kit to replace standard shelving on 25 cu. ft. size Incubators; Includes 4 stainless steel wire rod shelves		SHLF311	97014-216
Built-In Temperature Recorder, Single Pen, 6", 7-Day, 24-Hour, 115 V		RCDR301-1	97014-222
Built-in Temperature Recorder, Thermal Printer, 10", 7 Day, 24 Hour, 115 V		RCDR303-1	97014-230
Side-Mounted Temperature Recorder, Single Pen, 10", 7-Day, 24-Hour, 115 V		RCDR305-1	97014-238
Additional 2" Access Port. Factory installed at the time of order.		PORT301	97014-308
Fresh Air Ports for Model 6021 and 6041 Refrigerated Incubators		PORT302	97014-310
Swivel casters (set of 4). Two locking and two non-locking.		CSTR301	89173-398
Stainless Steel Perforated Shelf Kit. Includes 2 shelf tracks.		SHLF304	89173-402
Stacking Kit for securing two 10 cu. ft. units on top of each other.		STCK301	89173-406
Stainless steel perforated shelf kit. Includes 2 shelf tracks. Factory installed at the time of order or can be retro-fitted in the field by a qualified technician.		SHLF300	97014-208
Remote Alarm Contacts. Provides NO and NC dry contacts for alarms.		ALRM301	97014-278
Single Interior GFI Duplex Outlet, for 115V models. Fused at 2A. Humidity levels cannot exceed 90% RH with installation of this accessory.		OUTL301-1	97014-294
Single Interior GFI Duplex Outlet; Fused at 2A, Humidity levels cannot exceed 90%RH with installation of this accessory, for 230V, 60Hz units		OUTL301-2	97014-296

Microbiological Incubators, BD Series, BINDER

Ideal for research, production, and quality assurance, these incubators feature the APT.Line™ preheating chamber for reliable temperature precision in applications requiring constant and reproducible incubation conditions. Units include an inner glass door, a microprocessor PID controller with an LED display, an integrated timer, and one ramp function. The disinfection cycle operates at 100°C (212°F) for maximum hygiene and the ventilation is adjustable by means of a rear exhaust duct, ventilation flap, and front ventilation slide.

Incubators also feature an RS-422 interface for use with APT-COM™ Data Control System software, compliant with GLP/GMP and FDA guideline 21 CFR Part 11. The BD 23, BD 53, and BD 115 models are stackable.

Ordering Information: Incubators include two chrome-plated shelves and are equipped with a Class 3.1, DIN 12880 safety device. For IQ/QQ qualification documentation and validation and calibration certificates, contact your VWR sales representative.



Description	Electrical	Volume	Exterior Dimensions	Interior Dimensions	Temperature Accuracy	Temperature Range	Weight	Supplier No.	Cat. No.
BD 400 Model	115V, 50/60Hz, 850W	400 L (14 cu. ft.)	123.4W x 76.5D x 103H cm (48 ¹⁹ / ₃₂ x 30 ¹ / ₈ x 40 ⁹ / ₁₆ "")	100W x 50D x 80H cm (39 ³ / ₈ x 19 ¹¹ / ₁₆ x 31 ¹ / ₂ "")	0.1 C at 37 (98.6 F), 0.1 C at 50 C (122 F)	5° above ambient to 100°C (212°F)	135 kg (297.6 lbs.)	9010-0176	CA47746-766
BD 720 Model	115V, 50/60Hz, 1250W	720 L (25.4 cu. ft.)	123.4W x 86.5D x 153H cm (48 ¹⁹ / ₃₂ x 34 ¹ / ₁₆ x 60 ³ / ₄ "")	100W x 60D x 120H cm (39 ³ / ₈ x 23 ³ / ₈ x 47 ¹ / ₄ "")	0.1 C at 37 (98.6 F), 0.1 C at 50 C (122 F)	5° above ambient to 100°C (212°F)	191 kg (421.1 lbs.)	9010-0177	CA47746-768
BD 53 Model	115V, 50/60Hz, 400W	53 L (1.9 cu. ft.)	63.4W x 57.5D x 61.7H cm (25 x 22 ⁵ / ₈ x 24 ⁵ / ₈ "")	40W x 33D x 40H cm (15 ³ / ₄ x 13 x 15 ³ / ₄ "")	0.1 C at 37 (98.6 F), 0.1 C at 50 C (122 F)	5° above ambient to 100°C (212°F)	43 kg (94.8 lbs.)	9010-0179	CA47746-772
BD 115 Model	115V, 50/60Hz, 400W	113 L (4 cu. ft.)	83.4W x 64.5D x 70.2H cm (32 ²⁷ / ₃₂ x 25 ¹³ / ₃₂ x 27 ⁵ / ₈ "")	60W x 40D x 48H cm (23 ⁵ / ₈ x 15 ³ / ₄ x 18 ²⁹ / ₃₂ "")	0.1 C at 37 (98.6 F), 0.1 C at 50 C (122 F)	5° above ambient to 100°C (212°F)	61 kg (134.5 lbs.)	9010-0181	CA47746-776
BD 240 Model	115V, 50/60Hz, 680W	240 L (8.5 cu. ft.)	103.4W x 74.5D x 82.2H cm (40 ²³ / ₃₂ x 29 ⁵ / ₁₆ x 32 ⁵ / ₈ "")	80W x 50D x 60H cm (31 ¹ / ₂ x 19 ¹¹ / ₁₆ x 23 ⁵ / ₈ "")	0.1 C at 37 (98.6 F), 0.1 C at 50 C (122 F)	5° above ambient to 100°C (212°F)	93 kg (205 lbs.)	9010-0183	CA47746-780
BD 23 Model	115V, 50/60Hz, 200W	20 L (0.7 cu. ft.)	43.3W x 51.6D x 49.2H cm (17 x 20 ⁵ / ₁₆ x 19 ³ / ₈ "")	22.2W x 28D x 33H cm (8 ³ / ₄ x 11 x 13")	0.2 C at 37 (98.6 F), 0.3 C at 50 C (122 F)	5° above ambient to 100°C (212°F)	26 kg (57.3 lbs.)	9010-0189	CA47746-788

KB (E3.1) Series Refrigerated Incubators with Mechanical Convection, BINDER

Electronically controlled APT.line™ preheating chamber and patented DCT™ refrigeration system assuring temperature accuracy and reproducible results in both heating and cooling situations.

Adjustable ramp function via program editor. Adjustable Fan Speed. Inner glass door. Elapsed time indicator.

MP Controller with 2 Programs with 10 Sections each, alternatively switchable to 1 Program with 20 Sections.



Electrical	Model	Certification	Supplier No.	Cat. No.
230V AC, 1 Phase, 50/60Hz	KB 23 (E3.1)	—	9020-0112	89038-318
115V AC, 1 Phase, 50Hz	KB 115 UL (E3.1)	UL Listed	9020-0117	89038-312

KB (E5.1) Series Refrigerated Incubators with Mechanical Convection, BINDER

Electronically controlled APT.line™ preheating chamber and patented DCT™ refrigeration system assuring temperature accuracy and reproducible results in both heating and cooling situations.

Adjustable ramp function via program editor. Adjustable Fan Speed. Inner glass door. Elapsed time indicator.

MP Controller with 2 Programs with 10 Sections each, alternatively switchable to 1 Program with 20 Sections.



Electrical	Model	Certification	Supplier No.	Cat. No.
200-240V AC, 1 Phase, 50/60Hz	KB 240 (E5.1)	—	9020-0254	89038-310
200-240V AC, 2 Phase, 50/60Hz	KB 720 UL (E5.1)	UL Listed	9020-0167	89038-798

VWR COLLECTION

VWR® Counter-Pen™ Cell Counter

Made of durable ABS plastic, this combination marker and digital counter is designed for the lab and plant. Use the unit to count cell growth on petri dishes, inventory parts, and tally samples received. Each time a black mark is made with the felt-tipped pen, the unit automatically sounds a beep, and the LCD displays the count. Touch, sound, and count occur simultaneously. Even when interrupted, marks hold your place and the counter holds your total, making the unit virtually error-proof. Unit features audio/visual counts to 99,999 with reset button, on/off switch, and pen cap.

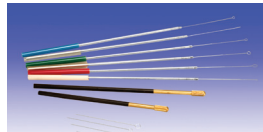


Dimensions	Weight	Cat. No.
15.2L x 1.7dia. cm (6 x 2/3")	28.4 g (1 oz.)	21800-060

VWR COLLECTION

VWR® Reusable Inoculating Loops and Needles

Inoculating loops and needles are constructed of high-quality, economic nichrome wire that cools rapidly after sterilization. Loops slide along agar surfaces without cutting or tearing. Loops are available with or without lightweight aluminum handles, which are insulated for hand protection. Reusable needles feature lightweight, insulated aluminum handles and are ideal for selecting, inoculating, or transferring microbiological samples. Loop holders are constructed of insulated nickel-plated brass.



Calibrated loops are supplied with certificates based on ASM/APHA Evans blue dye test protocols.

Description	Size	Cat. No.
Loops		
Without Handles	2.3 mm I.D.	80094-476
Without Handles	3 mm I.D.	80094-478
Without Handles	3.6 mm I.D.	80094-480
Streaker with Handles	2.5 mm I.D.	80094-490
Streaker with Handles	3.5 mm I.D.	80094-488
Streaker with Handles	5.5 mm I.D.	80094-486
Calibrated without Handles	1 µL	80094-496
Calibrated without Handles	10 µL	80094-494
Calibrated Streaker with Handles	10 µL	80094-492
Loop Holders		
15.2 cm (6") Long		80094-482
20.3 cm (8") Long		80094-484
Needles		
With No Handle		80094-508
Straight with 15.2 cm (6") Handle		80094-498
Angled with 15.2 cm (6") Handle		80094-507
With 20.3 cm (8") Handle		80094-504

VWR COLLECTION

VWR® Inoculating Loops and Needles, Sterile

High-impact polystyrene loops and needles are smooth and flexible to facilitate uniform and smooth streaking without damaging the gel surface. Needles are straight and suitable for removal of single colony specimens. Packed sterile in safe, tamperproof, zip-seal resealable bags. Disposable inoculating loops and needles do not need flaming, eliminating the risk of infection due to aerosol formation of pathogenic substances as well as cross-contamination due to improper sterilization. Loops and needles can be used under hoods without danger. Color-coded for easy size identification. Total length: 22.7cm (8 7/8").



Description	Size	Color	Packaging	Cat. No.
Loops	1 µL	Blue	1/Bag	89126-870
Loops	1 µL	Blue	10/Bag	12000-808
Loops	1 µL	Blue	25/Bag	12000-806
Loops	10 µL	Yellow	1/Bag	89126-872
Loops	10 µL	Yellow	10/Bag	12000-812
Loops	10 µL	Yellow	25/Bag	12000-810
Needles	—	White	1/Bag	89126-868
Needles	—	White	10/Bag	12000-816
Needles	—	White	25/Bag	12000-814

VWR COLLECTION

VWR® Disposable Aluminum Weighing Dishes

- Contaminant-Free, Oil-Free

Ideal for weighing, sampling, dispensing, storage, food processing, evaporating or general laboratory use.



Pans feature a flanged edge with curled lip and are contaminate- and oil-free. Made of light gauge aluminum. Stackable.

Capacity	I.D. x D	Cat. No.
70 mL (2.4 oz.)	6.3 x 1.9 cm (2 1/2 x 3/4")	25433-014
20 mL (0.7 oz.)	4.4 x 1.3 cm (1 3/4 x 1/2")	25433-016
500 mL (16.9 oz.)	18.0 x 2.5 cm (7 1/16 x 1")	25433-018
75 mL (2.5 oz.)	6.5 x 3.0 cm (2 9/16 x 1 3/16")	25433-020
200 mL (6.8 oz.)	11.0 x 2.9 cm (4 3/16 x 1 1/8")	25433-022

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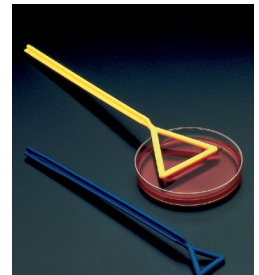


VWR® Bacti Cell Spreaders

Convenient and economical cell spreaders are designed to simplify bacterial culture work. Durable enough to be autoclaved and reused.

Ordering Information: Cell spreaders are available sterile (individually wrapped) or nonsterile (bulk packed).

Blade Width	Overall Length	Color	Sterility	Cat. No.
3.0 cm	21.5 cm	Blue	Sterile	60828-682
6.0 cm	24.0 cm	Yellow	Nonsterile	60828-684
6.0 cm	24.0 cm	Yellow	Sterile	60828-688
Blade Width	Overall Length	Color	Sterility	Cat. No.
3.0 cm	21.5 cm	Blue	Nonsterile	60828-680



BD GasPak™ EZ Pouch Systems, BD Diagnostics

Pouch systems include 20 resealable pouches and 20 rapid gas-generating sachets. The Anaerobe Pouch System also includes 20 dry anaerobic indicators. Sachets do not require water or a catalyst to produce optimal bacterial growth in anaerobic, microaerophilic (reduced oxygen), or CO2 enriched environments.

Pouches are one-step resealable; no sealing bars needed. Multi-layer plastic pouch material preserves environmental integrity for maximum performance. Pouches can accommodate up to four Petri dishes.

Note: When using the anaerobic system, an anaerobic indicator must be used. (System 90003-648 includes 20 dry indicator strips). Dry indicator strips change from blue to colorless in the absence of oxygen and may be stored at room temperature prior to use.



Description	Supplier No.	Cat. No.
Anaerobic Indicator Strips, Dry	271051	CA90003-866

BD GasPak™ EZ Container Systems, BD Diagnostics

Rapid gas generating sachets produce optimal bacterial growth in anaerobic, microaerophilic (reduced oxygen), or CO2 enriched environments. Sachets do not require water or a catalyst. Two incubation container sizes are available: standard and large. These containers are nonbreakable and chemical-resistant for maximum safety. Easy-close latches assure a secure, airtight seal. Containers are designed to hold either petri dish racks or standard test tube racks for greater convenience. Standard container and rack holds 15–18 petri dishes and the large container and rack holds 30–33 petri dishes.

Note: When using the anaerobic system, an anaerobic indicator must be used. Dry indicator strips change from blue to colorless in the absence of oxygen and may be stored at room temperature prior to use.



Description	Supplier No.	Cat. No.
Incubation Chamber, Standard	260671	CA90003-634
Incubation Chamber, Large	260672	CA90003-636
Incubation Container Rack, Standard	260673	CA90003-638
Incubation Container Rack, Large	260674	CA90003-640
Anaerobe Sachets, Pack of 20	260678	CA90003-642
CO2 Sachets, Pack of 20	260679	CA90003-644
Campy Sachets, Microaerophilic, Pack of 20	260680	CA90003-646

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VWR® Disposable Transfer Pipets

- Will Not Shatter or Break
- Can Be Used in Liquid Nitrogen
- Nontoxic and Inert
- No Bulb to Insert or Remove
- Uniform Drop Size



These unbreakable all-in-one pipets eliminate the hazard of broken glass and exposure to infectious materials. Molded from see-through low density polyethylene, they are inert to biological fluids and most acids. The low-affinity surface reduces the loss of cells and valuable proteins due to binding. Transfer pipets can be sealed and refrigerated, and will work well whenever there is a need for quick, safe fluid transfer. Can be gas sterilized.

Description	Capacity	Overall Length	Bulb Draw	Sterility	Drops per mL	Packaging	Cat. No.
Extra Long	23 mL	30 cm (11 ¹³ / ₁₆ "	7.3 mL	Sterile	20	Individually Wrapped	414004-027
Extra Long	23 mL	30 cm (11 ¹³ / ₁₆ "	7.3 mL	Sterile	20	20 per Bag	414004-029
Fine Tip, Standard	5 mL	14.9 cm (5 ⁷ / ₈ "	3.3 mL	Nonsterile	50	Bulk Packaged	16001-194
Fine Tip, Standard	5.8 mL	14.7 cm (5 ²⁵ / ₃₂ "	3.3 mL	Nonsterile	50	Bulk Packaged	414004-020
Fine Tip, Standard	5.8 mL	14.7 cm (5 ²⁵ / ₃₂ "	3.3 mL	Sterile	50	Individually Wrapped	414004-021
Fine Tip, Standard	5.8 mL	14.7 cm (5 ²⁵ / ₃₂ "	3.3 mL	Sterile	50	20 per Bag	414004-022
Fine Tip, Standard	5.8 mL	14.7 cm (5 ²⁵ / ₃₂ "	3.3 mL	Nonsterile	50	Peel-Off Pouch (50 x 10)	414004-048
General-Purpose	1.7 mL	8.7 cm (3 ⁷ / ₁₆ "	0.9 mL	Nonsterile	25	Bulk Packaged	16001-174
General-Purpose	1.7 mL	8.7 cm (3 ⁷ / ₁₆ "	0.9 mL	Sterile	25	Individually Wrapped	414004-030
General-Purpose	1.7 mL	8.7 cm (3 ⁷ / ₁₆ "	0.9 mL	Sterile	25	20 per Bag	414004-031
General-Purpose, Large Bulb	8 mL	15.2 cm (6"	4.6 mL	Nonsterile	20	Bulk Packaged	16001-190
General-Purpose, Large Bulb	15 mL	15.5 cm (6 ¹ / ₈ "	8.0 mL	Sterile	19	Individually Wrapped	414004-041
General-Purpose, Large Bulb	8 mL	15.2 cm (6"	4.6 mL	Sterile	20	20 per Bag	414004-046
General-Purpose, Large Bulb	8 mL	15.2 cm (6"	4.6 mL	Sterile	20	Individually Wrapped	414004-047
Large Aperture	9.3 mL	13.8 cm (5 ⁷ / ₁₆ "	4.8 mL	Nonsterile	18	Bulk Packaged	414004-032
Long	5.5 mL	22.9 cm (9"	3.0 mL	Nonsterile	25	Bulk Packaged	16001-186
Long	5.5 mL	22.9 cm (9"	2.3 mL	Sterile	25	Individually Wrapped	414004-026
Long	5.5 mL	22.9 cm (9"	2.3 mL	Sterile	25	20 per Bag	414004-028
Narrow Stem, Large Bulb	4 mL	8.5 cm (3 ³ / ₈ "	3.0 mL	Nonsterile	25	Bulk Packaged	414004-007
Narrow Stem, Large Bulb	15 mL	15.5 cm (6 ¹ / ₈ "	8.0 mL	Nonsterile	19	Bulk Packaged	414004-012
Narrow Stem, Standard	4.6 mL	15.5 cm (6 ¹ / ₈ "	3.3 mL	Sterile	22	Individually Wrapped	414004-008
Narrow Stem, Standard	4.6 mL	15.5 cm (6 ¹ / ₈ "	3.3 mL	Sterile	22	Peel-Off Pouch (100 x 5)	414004-009
Narrow Stem, Standard	4.6 mL	15.5 cm (6 ¹ / ₈ "	3.3 mL	Sterile	22	Peel-Off Pouch (50 x 10)	414004-010
Narrow Stem, Standard	4.6 mL	15.5 cm (6 ¹ / ₈ "	3.3 mL	Sterile	22	20 per Bag	414004-011
Short Thin Stem	1.2 mL	6.4 cm (2 ¹ / ₂ "	0.9 mL	Nonsterile	25	Bulk Packaged	16001-170
Standard	7.5 mL	15.5 cm (6 ¹ / ₈ "	3.2 mL	Nonsterile	20	Bulk Packaged	414004-004
Standard	7.5 mL	15.5 cm (6 ¹ / ₈ "	3.2 mL	Sterile	20	Individually Wrapped	414004-005
Standard	7.5 mL	15.5 cm (6 ¹ / ₈ "	3.2 mL	Sterile	20	20 per Bag	414004-006
Standard, Thin Stem	4.6 mL	15.5 cm (6 ¹ / ₈ "	3.3 mL	Nonsterile	22	Bulk Packaged	16001-178

Chemical Capabilities—Tried. Trusted. True.

VWR chemicals are suitable for a multitude of analytical and production applications.

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- High Purity Solvents
- Inorganic Salts
- Regulated Chemicals
- ...and more

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VWR offers thousands of chemicals from our key brands.

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VWR® Disposable Transfer Pipets, Graduated

- Will Not Shatter or Break
- Can Be Used in Liquid Nitrogen
- Nontoxic and Inert
- No Bulb to Insert or Remove
- Uniform Drop Size

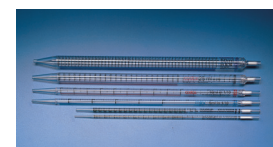


These unbreakable all-in-one graduated transfer pipets eliminate the hazard of broken glass and exposure to infectious materials. Molded from see-through low density polyethylene, pipets are inert to biological fluids and most acids, and can be sealed and refrigerated. The low-affinity surface reduces the loss of cells and valuable proteins due to binding. Ideal for quick, safe transfer of fluids. Transfer pipets can be gas sterilized.

Description	Capacity	Overall Length	Maximum Graduation Volume	Bulb Draw	Graduations	Sterility	Drops per mL	Packaging	Cat. No.
Thin Stem	1.5 mL	11.6 cm (4 ⁹ / ₁₆ "	0.9 mL	0.8 mL	0.1 mL	Nonsterile	21	Bulk Packaged	16001-172
Thin Stem	1.5 mL	11.6 cm (4 ⁹ / ₁₆ "	0.9 mL	0.8 mL	0.1 mL	Sterile	21	20 per Bag	414004-025
Thin Stem	1.5 mL	11.6 cm (4 ⁹ / ₁₆ "	0.9 mL	0.8 mL	0.1 mL	Sterile	21	Individually Wrapped	414004-024
Small Bulb	3 mL	13.8 cm (5 ⁷ / ₁₆ "	1 mL	2.1 mL	0.25 mL	Nonsterile	25	Bulk Packaged	16001-176
Small Bulb	3 mL	14 cm (5 ¹ / ₂ "	1 mL	2.1 mL	0.25 mL	Nonsterile	25	Bulk Packaged	414004-017
Blood Bank	5 mL	15.5 cm (6 ¹ / ₈ "	2 mL	1.9 mL	0.5 mL	Nonsterile	25	Bulk Packaged	16001-182
General-Purpose	7.5 mL	15.5 cm (6 ¹ / ₈ "	3 mL	3.2 mL	0.5 mL	Nonsterile	20	Bulk Packaged	16001-188
Large Bulb	5 mL	15.5 cm (6 ¹ / ₈ "	1 mL	3.1 mL	0.25 mL	Nonsterile	25	Bulk Packaged	16001-180
Large Bulb	5.8 mL	15.5 cm (6 ¹ / ₈ "	1 mL	3.4 mL	0.25 mL	Nonsterile	25	Bulk Packaged	414004-014
Large Bulb	5.8 mL	15.5 cm (6 ¹ / ₈ "	1 mL	3.4 mL	0.25 mL	Sterile	25	Bulk Packaged	414004-015
Large Bulb	5.8 mL	15.5 cm (6 ¹ / ₈ "	1 mL	3.4 mL	0.25 mL	Nonsterile	25	Peel-Off Pouch (100 x 5)	414004-034
Large Bulb	5.8 mL	15.5 cm (6 ¹ / ₈ "	1 mL	3.4 mL	0.25 mL	Nonsterile	25	Peel-Off Pouch (50 x 10)	414004-035
Large Bulb	5.8 mL	15.5 cm (6 ¹ / ₈ "	1 mL	3.4 mL	0.25 mL	Sterile	25	Individually Wrapped	414004-016
Large Bulb	5.8 mL	15.5 cm (6 ¹ / ₈ "	1 mL	3.4 mL	0.25 mL	Sterile	25	Peel-Off Pouch (50 x 10)	414004-040
Large Bulb	7.5 mL	15.5 cm (6 ¹ / ₈ "	3 mL	3.2 mL	0.5 mL	Sterile	20	20 per Bag	414004-013
Large Bulb	7.5 mL	15.5 cm (6 ¹ / ₈ "	3 mL	3.2 mL	0.5 mL	Sterile	20	Peel-Off Pouch (100 x 5)	414004-044
Large Bulb	7.5 mL	15.5 cm (6 ¹ / ₈ "	3 mL	3.2 mL	0.5 mL	Sterile	20	Peel-Off Pouch (50 x 10)	414004-045
Large Bulb	7.5 mL	15.5 cm (6 ¹ / ₈ "	3 mL	3.2 mL	0.5 mL	Sterile	20	Individually Wrapped	414004-043

Corning® Stripette® Disposable Serological Pipets, Polystyrene, Sterile, Plugged

Stripette® pipets are optically clear, sterile, nonpyrogenic, and RNase- and DNase-free. Exclusive anti-drip tip assures accurate delivery (25, 50, and 100mL sizes). Color-coded magnifier strips make volume reading easier. Bidirectional graduations on the pipets provide added flexibility.



Paper/plastic wrap allows easy opening by either pop-through or peel-apart techniques. Ideal for sterile tissue culture applications. Wrap reduces static cling.

Capacity	Band Color	Negative Graduations	Subdivisions	Packaging	Supplier No.	Cat. No.
1 mL	Yellow	0.2 mL	0.01 mL	Individually Wrapped	4011	29442-408
2 mL	Green	0.2 mL	0.01 mL	Bulk Packed	4020	29442-416
2 mL	Green	0.2 mL	0.01 mL	Individually Wrapped	4021	29442-418
5 mL	Blue	2.0 mL	0.1 mL	Bulk Packed	4050	29442-420
5 mL	Blue	2.0 mL	0.1 mL	Individually Wrapped	4051	29442-422
10 mL	Orange	3.0 mL	0.1 mL	Bulk Packed	4100	29442-428
25 mL	Red	10.0 mL	0.2 mL	Bulk Packed	4250	29442-434
25 mL	Red	10.0 mL	0.2 mL	Individually Wrapped	4251	29442-436
50 mL	Purple	10.0 mL	0.5 mL	Bulk Packed	4500	29442-438
50 mL	Purple		0.5 mL	Individually Wrapped	4501	29442-440
100 mL	Seafoam		1 mL	Individually Wrapped	4484	29442-886
1 mL	Yellow	0.2 mL	0.01 mL	Individually Wrapped, Paper/Plastic Wrap	4485	29443-041
2 mL	Green	0.2 mL	0.01 mL	Individually Wrapped, Paper/Plastic Wrap	4486	29443-043
5 mL	Blue	2.5 mL	0.1 mL	Individually Wrapped, Paper/Plastic Wrap	4487	29443-045
25 mL	Red	10 mL	0.2 mL	Individually Wrapped, Paper/Plastic Wrap	4489	29443-049
50 mL	Purple	10 mL	0.5 mL	Individually Wrapped, Paper/Plastic Wrap	4490	29443-051
10 mL	Orange	3 mL	0.1 mL	Cleanroom Pack Individually Wrapped, Paper/Plastic Wrap, Triple Bagged	7015	89089-884
2 mL	Green	0.2 mL	0.01 mL	Cleanroom Pack Individually Wrapped, Paper/Plastic Wrap, Triple Bagged	7042	89089-890
50 mL	Purple	10 mL	0.5 mL	Cleanroom Pack Individually Wrapped, Paper/Plastic Wrap, Triple Bagged	7017	89089-892
5 mL	Blue	2.5 mL	0.1 mL	Cleanroom Pack Individually Wrapped, Paper/Plastic Wrap, Triple Bagged	7045	89089-894
100 mL	Aqua		1 mL	Individually Wrapped, Paper/Plastic Wrap	4491	89091-046

Sterile Solutions for Injection, Baxter® Medication Delivery

Multi Pack contains 16 bags per overwrap pouch. Quad Pack contains four bags per overwrap pouch. Single Pack contains one bag per overwrap pouch. For the 5000mL size of Lactated Ringer's: dosage as directed by a veterinarian for intravenous or subcutaneous use or as an irrigating solution.

Prescription Drug- License Required

Description	Size	pH	Container Type	mEq/L	mOsmol/L (calc)	NDC Number	Supplier No.	Cat. No.
Sterile Water for Injection, USP	2000 mL	5.5 (5.0–7.0)	Viaflex® Bag	—	0	0338-0013-06	2B0306	CA68000-196

Dehydrated Media—Heart Infusion Broth to M 17 Broth, BD Diagnostics

An extensive collection of dehydrated media for use in food, beverage, dairy, water, and wastewater microbiological testing, as well as cosmetics and pharmaceutical industry testing. These agars, enrichments, and inhibitors reflect the highest production standards, from the careful selection of raw materials to rigorous quality control in manufacturing processes and batch preparation.

Description	Size	Supplier No.	Cat. No.
Lactose Broth	2 kg	241000	CA90003-228

Dehydrated Media—Supplement B to BD Trypticase™ Soy Broth, BD Diagnostics

An extensive collection of dehydrated media for use in food, beverage, dairy, water, and wastewater microbiological testing, as well as cosmetics and pharmaceutical industry testing. These agars, enrichments, and inhibitors reflect the highest production standards, from the careful selection of raw materials to rigorous quality control in manufacturing processes and batch preparation.

Description	Size	Supplier No.	Cat. No.
Tryptic Soy Broth	2 kg	211822	CA90000-372

BD Difco™ Brand Fermentation Media Products, BD Diagnostics

All bacterial fermentation ingredients exhibit superior consistency, performance, and solubility.

Description	Size	Supplier No.	Cat. No.
Tryptic Soy Broth	10 kg	211823	CA90000-374
LB Agar, Lennox	500 g	240110	CA90003-112
LB Broth, Lennox	500 g	240230	CA90003-118
Luria Agar Base, Lennox	500 g	241320	CA90003-250
Luria Broth Base, Miller	500 g	241420	CA90003-254
Terrific Broth	500 g	243820	CA90003-322
LB Agar, Miller	500 g	244520	CA90003-346
LB Broth, Miller	500 g	244620	CA90003-350
M9 Minimal Salts	500 g	248510	CA90003-416
TC Yeastolate	10 kg	255771	CA90003-508

Dehydrated Culture Media—ENDO Agar to Lysine Iron Agar, EMD Millipore

This extensive line of culture media products is produced in powdered and granular form. Granulation preserves homogeneity by capturing the media's original component distribution in each granule and preventing settling out. Dangers associated with inhalation of fine dust and toxic substances are significantly reduced with granulated media. It is easier to weigh out and dissolves faster than powdered media. Media is granulated, except where otherwise noted.



Description	Size	Supplier No.	Cat. No.
Lactose Broth	2.5 kg	1.07661.2500	CA1.07661.2500

ACTERO™ E. coli Enrichment Media, FoodChek Systems

Food and environmental samples require enrichment before pathogen testing, enabling any bacterial pathogen present to grow and be detected in test samples. The patent-pending Actero™ Elite Enrichment Media are enhanced formulations that reduce the enrichment time required for accurate pathogen testing. Actero™ Universal Enrichment Media are established formulations that are used in standard protocols employed in testing labs today.

Using Actero™ Elite Enrichment Media significantly reduces all sample enrichment phase timelines regardless the type of “food pathogen testing system,” such as lateral flow, ELISA and PCR platforms.

Get even faster results and accuracy when you combine Actero™ Elite Enrichment Media with the FoodChek™ MICT Reader and Assay Cassettes.



Description	Includes	Supplier No.	Cat. No.
Actero™ E. Coli/STEC Enrichment Media	500 g of Dehydrated Media and 3 Supplement Vials (yields 30 L rehydrated media)	FCM-020	CA89369-696

Description	Application	Includes	Supplier No.	Cat. No.
Elite Enrichment Media				
Actero™ Modified Tryptone Soya Broth (MTSB)	Enrichment of Escherichia coli O157 from Food (requires FCM-002 VCC supplement for selective enrichment)	500 g Dehydrated Media	FCM-001	CA97068-828
Actero™ Modified Tryptone Soya Broth (MTSB) with E. coli O157 Supplement Vials (VCC)	Enrichment of Escherichia coli O157 from Food	500 g Dehydrated Media and 2 Vials of VCC Media	FCM-008	CA97068-832
Actero™ Modified Tryptone Soya Broth (MTSB) Media Pouches	Enrichment of Escherichia coli O157 from Food	20 x 24.75 g Pouches of Dehydrated Media	FCM-003	CA97068-834
Actero™ Shiga Toxin-Producing E. coli (STEC) Enrichment Media	Selective Growth of STEC; Promotes Faster Selective Growth and Enrichment of STEC Strains; Validated to Performance Tested Methods of AOAC-RI in Ground Beef	500 g Dehydrated Media and 3 Vials of Supplement Media	FCM-013	CA97068-840

ACTERO™ Salmonella Enrichment Media, FoodChek Systems

Food and environmental samples require enrichment before pathogen testing enabling any bacterial pathogen present to grow and be detected in test samples. The patent-pending Actero™ Elite Enrichment Media are enhanced formulations that reduce the enrichment time required for accurate pathogen testing. Actero™ Universal Enrichment Media are established formulations that are used in standard protocols employed in testing labs today.

Using Actero™ Elite Enrichment Media significantly reduces all sample enrichment phase timelines regardless the type of “food pathogen testing system,” such as lateral flow, ELISA and PCR platforms.

Get even faster results and accuracy when you combine Actero™ Elite Enrichment Media with the FoodChek™ MICT Reader and Assay Cassettes.

Description	Application	Includes	Supplier No.	Cat. No.
Elite Enrichment Media				
Actero™ Salmonella Enrichment Media	Improved Enrichment of Salmonella spp. from Food and Environmental Surfaces; Validated to Performance Tested Methods of AOAC-RI in Food and Environmental Surfaces	500 g Dehydrated Media and 3 Vials of Supplement Media	FCM-009	CA97068-836

ACTERO™ Listeria Enrichment Media, FoodChek Systems

Food and environmental samples require enrichment before pathogen testing enabling any bacterial pathogen present to grow and be detected in test samples. The patent-pending Actero™ Elite Enrichment Media are enhanced formulations that reduce the enrichment time required for accurate pathogen testing. Actero™ Universal Enrichment Media are established formulations that are used in standard protocols employed in testing labs today.

Using Actero™ Elite Enrichment Media significantly reduces all sample enrichment phase timelines regardless the type of “food pathogen testing system,” such as lateral flow, ELISA and PCR platforms.

Get even faster results and accuracy when you combine Actero™ Elite Enrichment Media with the FoodChek™ MICT Reader and Assay Cassettes.

Description	Application	Includes	Supplier No.	Cat. No.
Elite Enrichment Media				
Actero™ Listeria Enrichment Media	Optimized for Single-Step Recovery and Enrichment of Listeria spp. from Food and Environmental Samples	500 g Dehydrated Media	FCM-011	CA97068-830

Bacillus cereus Medium, CRITERION™, Hardy Diagnostics

CRITERION™ Bacillus Cereus Agar Base is a selective agar medium used for the isolation and determination of *Bacillus Cereus*. Egg Yolk Emulsion, product r450290, and Bacillus Cereus Selective Supplement, Polymyxin B, product #SR099E, are required for this medium. Requires supplements: Egg Yolk Suspension 89407-700, and *Bacillus Cereus* Selective Supplement Polymyxin B SR099E. Dehydrated culture media with engineered container.

Custom and bulk products available. BSE Free documentation available. Over 30 years of formulation experience

BSE Free

Size	Packaging	Supplier No.	Cat. No.
122.4 g	Mylar® zip-pouch to make 2 L	C5060	CA89405-096
2 kg	Bucket	C5061	CA89405-098
10 kg	Bucket	C5063	CA89405-102

Baird Parker Agar, Hardy Diagnostics

For the selective isolation of coagulase positive Staphylococci.

Size	Volume	Packaging	Supplier No.	Cat. No.
15 x 100 mm	18 mL	Plate	G96	CA89407-366

Baird Parker Agar Base, CRITERION™, Hardy Diagnostics

CRITERION™ Baird-Parker Agar Base is used with Egg Yolk Tellurite Enrichment as a selective medium for the detection and enumeration of coagulase-positive staphylococci from food samples. Egg Yolk Tellurite Emulsion, product 89407-702, is required for this medium. Dehydrated culture media with engineered container.

Custom and bulk products available. BSE Free documentation available. Over 30 years of formulation experience

BSE Free

Size	Packaging	Supplier No.	Cat. No.
122.4 g	Mylar® zip-pouch to make 2 L	C5080	CA89405-104
500 g	Wide-Mouth Bottle	C5081	CA89405-106
2 kg	Bucket	C5082	CA89405-108
10 kg	Bucket	C5083	CA89405-110

Brilliant Green Agar, Hardy Diagnostics

For the isolation of *Salmonella* species other than *S. typhi* and *S. paratyphi* from food, clinical, and environmental specimens.

Description	Size	Volume	Packaging	Supplier No.	Cat. No.
Agar	15 x 100 mm	18 mL	Plate	G75	CA89407-342



CRITERION™ Buffered Peptone Water, Hardy Diagnostics

- Wide mouth opening - reduces dust and allows easy scooping
- Convenient handgrip - 'no slip' finger holds
- Stackable containers
- High solubility - dissolves quickly
- Custom and bulk products available - to your specifications

CRITERION™ Buffered Peptone Water is intended to aid in the recovery of injured *Salmonella* species from foods and other samples prior to selective enrichment and isolation. Dehydrated culture media with engineered container.

Custom and bulk products available. BSE Free documentation available. Over 30 years of formulation experience

BSE Free

Size	Packaging	Supplier No.	Cat. No.
122.4 g	Mylar® zip-pouch to make 2 L	C5320	CA89405-248
500 g	Wide-Mouth Bottle	C5321	CA89405-250
2 kg	Bucket	C5322	CA89405-252
10 kg	Bucket	C5323	CA89405-254

Butterfield's Phosphate Buffer, Hardy Diagnostics

For the preparation of dilutions for plate count and other laboratory tests, pH 7.2 .

Description	Size	Packaging	Supplier No.	Cat. No.
pH 7.2	16 x 125 mm	9 mL Tube	K208	CA89407-410
pH 7.2	9 mL	13 mL Polypropylene Tube	K119	CA89407-412



Half Fraser Broth Base, CRITERION™, Hardy Diagnostics

CRITERION™ Half Fraser Broth Base is used with Fraser Broth Supplement for the selective enrichment and detection of *Listeria* spp. from food and environmental samples. Dehydrated culture media with engineered container.

Custom and bulk products available. BSE Free documentation available. Over 30 years of formulation experience

BSE Free

Size	Packaging	Supplier No.	Cat. No.
122.4 g	Mylar® zip-pouch to make 2 L	C8040	CA89406-642
500 g	Wide-Mouth Bottle	C8041	CA89406-644
2 kg	Bucket	C8042	CA89406-646
10 kg	Bucket	C8043	CA89406-648

Hektoen Enteric Agar, CRITERION™, Hardy Diagnostics

CRITERION™ Hektoen Enteric (HE) Agar is a selective and differential medium used for the isolation and differentiation of gram-negative enteric pathogens. Dehydrated culture media with engineered container.

Custom and bulk products available. BSE Free documentation available. Over 30 years of formulation experience

BSE Free

Size	Packaging	Supplier No.	Cat. No.
122.4 g	Mylar® zip-pouch to make 2 L	C5840	CA89405-480
500 g	Wide-Mouth Bottle	C5841	CA89405-482
2 kg	Bucket	C5842	CA89405-484
10 kg	Bucket	C5843	CA89405-486

Lactose Broth, Hardy Diagnostics

For the cultivation of coliforms and *Salmonella* species in water, food, dairy, and pharmaceutical products.



Description	Size	Volume	Packaging	Supplier No.	Cat. No.
Agar Double strength	10 mL	10 mL	Tube, Durham	K137	CA89407-640

LBS Agar, CRITERION™, Hardy Diagnostics

CRITERION™ LBS Agar for the selection and cultivation of lactobacilli. CRITERION™ Dehydrated culture media with engineered container.

Custom and bulk products available. BSE Free documentation available. Over 30 years of formulation experience

BSE Free

Description	Size	Packaging	Supplier No.	Cat. No.
Tryptic Soy Agar	122.4 g	Mylar® zip-pouch to make 2 L	C6050	CA89405-596
	500 g	Wide-Mouth Bottle	C6051	CA89405-598
	2 kg	Bucket	C6052	CA89405-600
	10 kg	Bucket	C6053	CA89405-602

Listeria Enrichment Broth, CRITERION™, Hardy Diagnostics

CRITERION™ Listeria Enrichment Broth is used for the selective enrichment of *Listeria monocytogenes*. Dehydrated culture media with engineered container.

Custom and bulk products available. BSE Free documentation available. Over 30 years of formulation experience

BSE Free

Size	Packaging	Supplier No.	Cat. No.
122.4 g	Mylar® zip-pouch to make 2 L	C6030	CA89405-588
500 g	Wide-Mouth Bottle	C6031	CA89405-590
2 kg	Bucket	C6032	CA89405-592
10 kg	Bucket	C6033	CA89405-594

Lethen Agar, CRITERION™, Hardy Diagnostics

CRITERION™ Lethen Agar is used to determine the antimicrobial activity of quaternary ammonium compounds. Dehydrated culture media with engineered container.

Custom and bulk products available. BSE Free documentation available. Over 30 years of formulation experience

BSE Free

Size	Packaging	Supplier No.	Cat. No.
122.4 g	Mylar® zip-pouch to make 2 L	C7360	CA89406-300
500 g	Wide-Mouth Bottle	C7361	CA89406-302
2 kg	Bucket	C7362	CA89406-304
10 kg	Bucket	C7363	CA89406-306

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Lethen Broth, Modified, CRITERION™, Hardy Diagnostics

CRITERION™ Lethen Broth, Modified, for the determination of antimicrobial activity of quaternary ammonium compounds. Dehydrated culture media with engineered container.

Custom and bulk products available. BSE Free documentation available. Over 30 years of formulation experience

BSE Free

Size	Packaging	Supplier No.	Cat. No.
122.4 g	Mylar® zip-pouch to make 2 L	C7640	CA89406-460
500 g	Wide-Mouth Bottle	C7641	CA89406-462
2 kg	Bucket	C7642	CA89406-464
10 kg	Bucket	C7643	CA89406-466

mTEC Agar, CRITERION™, Hardy Diagnostics

CRITERION™ mTEC Agar is recommended for the differentiation and enumeration of thermotolerant *Escherichia coli* in water by membrane filtration and an in situ urease test. Dehydrated culture media with engineered container.

Custom and bulk products available. BSE Free documentation available. Over 30 years of formulation experience

BSE Free

Size	Packaging	Supplier No.	Cat. No.
122.4 g	Mylar® zip-pouch to make 2 L	C7740	CA89406-512
500 g	Wide-Mouth Bottle	C7741	CA89406-514
2 kg	Bucket	C7742	CA89406-516
10 kg	Bucket	C7743	CA89406-518

Pancreatic Digest of Casein, CRITERION™, Hardy Diagnostics

CRITERION™ Pancreatic Digest of Casein is a general purpose growth peptone used as a nitrogen source in culture media formulated for isolating and cultivating fastidious and nonfastidious bacteria and fungi and some protozoa. Dehydrated culture media with engineered container.

Custom and bulk products available. BSE Free documentation available. Over 30 years of formulation experience

BSE Free

Size	Packaging	Supplier No.	Cat. No.
100 g	Mylar® zip-pouch	C6530	CA89405-832

Pancreatic Digest of Casein, CRITERION* Dehydrated Culture Media

Size	Packaging	Supplier No.	Cat. No.
500 g	Wide-Mouth Bottle	C6531	CA89405-834
2 kg	Bucket	C6532	CA89405-836
10 kg	Bucket	C6533	CA89405-838

Potato Dextrose Agar, CRITERION™, Hardy Diagnostics

CRITERION™ Potato Dextrose Agar is used for the cultivation and identification of fungi. Dehydrated culture media with engineered container.

Custom and bulk products available. BSE Free documentation available. Over 30 years of formulation experience

BSE Free

Size	Packaging	Supplier No.	Cat. No.
122.4 g	Mylar® zip-pouch to make 2 L	C6620	CA89405-898
2 kg	Bucket	C6622	CA89405-900
10 kg	Bucket	C6623	CA89405-902

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Sabdex (Sabouraud Dextrose) Agar, Hardy Diagnostics

For the selective cultivation of fungi and dermatophytes.

Description	Size	Packaging	Supplier No.	Cat. No.
	26 mL	Plate	W70	CA89407-894
with Lecithin and Tween® 80	26 mL	Plate	W71	CA89407-898



Standard Methods Agar (Plate Count Agar), Hardy Diagnostics

For the cultivation and enumeration of microorganisms in dairy products, food, and water, and the cultivation and differentiation of acid producing bacteria.

Description	Size	Packaging	Supplier No.	Cat. No.
without label	18 mL	Plate	G44	CA89407-324
	18 mL	Pour Tube	Q21	CA89407-938

TAT Broth Base, CRITERION™, Hardy Diagnostics

CRITERION™ TAT Broth Base is used for cultivating microorganisms from highly viscous or gelatinous materials. Tween, product 89407-642, is required for this medium. Dehydrated culture media with engineered container.

Custom and bulk products available. BSE Free documentation available. Over 30 years of formulation experience

BSE Free

Size	Packaging	Supplier No.	Cat. No.
122.4 g	Mylar® zip-pouch to make 2 L	C7030	CA89406-102
500 g	Wide-Mouth Bottle	C7031	CA89406-104
2 kg	Bucket	C7032	CA89406-106
10 kg	Bucket	C7033	CA89406-108

Tryptic Soy Agar (TSA), Hardy Diagnostics

For use as a general growth medium for the isolation and cultivation of microorganisms. This medium is also recommended for use in the cultivation, storage, maintenance, and transportation of pure cultures of microorganisms.

Description	Size	Volume	Packaging	Supplier No.	Cat. No.
Agar	15 x 100 mm	18 mL	Plate	G60	CA89407-330
Agar	16 x 100 mm	6.5 mL	Tube	L60	CA89408-022



UVM Modified Listeria Broth, CRITERION™, Hardy Diagnostics

CRITERION™ UVM Modified Listeria Enrichment Broth is recommended for the rapid isolation of *Listeria monocytogenes*.

CRITERION™ Dehydrated Culture Media and container.

Custom and bulk products available. BSE Free documentation available.

BSE Free

Size	Packaging	Supplier No.	Cat. No.
122.4 g	Mylar® zip-pouch to make 2 L	C7240	CA89406-218
500 g	Wide-Mouth Bottle	C7241	CA89406-220
2 kg	Bucket	C7242	CA89406-222
10 kg	Bucket	C7243	CA89406-224

W-L Differential Medium, CRITERION™, Hardy Diagnostics

CRITERION™ W-L Differential Medium is primarily for use in the isolation of bacteria encountered in brewing and industrial fermentation processes. Dehydrated culture media with engineered container.

Custom and bulk products available. BSE Free documentation available. Over 30 years of formulation experience

BSE Free

Size	Packaging	Supplier No.	Cat. No.
122.4 g	Mylar® zip-pouch to make 2 L	C7290	CA89406-258
500 g	Wide-Mouth Bottle	C7291	CA89406-260
2 kg	Bucket	C7292	CA89406-262
10 kg	Bucket	C7293	CA89406-264

XLD Agar, CRITERION™ Dehydrated Culture Media, 122.4 gm Mylar® zip-pouch to make 2L, Hardy Diagnostics

CRITERION™ XLD Agar is recommended for use as a selective and differential medium for the isolation of gram-negative enteric pathogens such as Salmonella and Shigella from fecal and other specimens. Dehydrated culture media with engineered container.

Custom and bulk products available. BSE Free documentation available. Over 30 years of formulation experience

BSE Free

Size	Packaging	Supplier No.	Cat. No.
122.4 g	Mylar® zip-pouch to make 2 L	C7320	CA89406-274
500 g	Wide-Mouth Bottle	C7321	CA89406-276
2 kg	Bucket	C7322	CA89406-278

XLD Agar, CRITERION™ Dehydrated Culture Media, 10 kg bucket, Hardy Diagnostics

CRITERION™ XLD Agar is recommended for use as a selective and differential medium for the isolation of gram-negative enteric pathogens such as Salmonella and Shigella from fecal and other specimens.

CRITERION™ Dehydrated Culture Media and container.

Custom and bulk products available. BSE Free documentation available. Over 30 years of formulation experience

BSE Free

Size	Packaging	Supplier No.	Cat. No.
10 kg	Bucket	C7323	CA89406-280

XLT4 Agar Base, CRITERION™, Hardy Diagnostics

CRITERION™ XLT-4 Agar Base is a highly selective plating medium for the detection and isolation of non-typhi Salmonella species. XLT4 Supplement (Tergitol 4), product #235310, is required for this medium.

Dehydrated culture media with engineered container.

Custom and bulk products available. BSE Free documentation available. Over 30 years of formulation experience

BSE Free

Size	Packaging	Supplier No.	Cat. No.
122.4 g	Mylar® zip-pouch to make 2 L	C8030	CA89406-634
500 g	Wide-Mouth Bottle	C8031	CA89406-636
2 kg	Bucket	C8032	CA89406-638
10 kg	Bucket	C8033	CA89406-640

BD BBL™ Prepared Media Stacker™ Plates, BD Diagnostics

Prepared plated media are designed for the isolation of microorganisms from samples or specimens and come in 100x10mm or 100x15mm petri-style configurations unless otherwise noted. Plates contain a single medium, and feature an interlocking, stackable design to minimize sliding or sample disruption. Plates are ready for immediate use. Store at 2 to 8°C (36 to 46°F).

Description	Supplier No.	Cat. No.
BD Trypticase™ Soy Agar, with 5% Sheep Blood (TSA II)	221239	CA90001-276
BD Trypticase™ Soy Agar, with 5% Sheep Blood (TSA II)	221261	CA90001-282

BD BBL™ Sterile Pack Plated Media, BD Diagnostics

For monitoring critical environments. Media plates are gamma-irradiated for sterility assurance, eliminating the set-up time and QC expense of preincubation. Two layers of Tyvek®/polyethylene wrapping create the ultimate bacterial barrier while also allowing optimal moisture transfer throughout the life of the product. For added convenience, a sterile third inner bag is included for transport of plates from the clean area to the testing laboratory.

Choose BD RODAC™ agar plates for surface and active air sampling, BD Finger Dab™ agar plates for sampling gloved hands, or settling plates for active and passive air sampling.

Ordering Information: Each pack or case contains a signed, lot-specific Certificate of Analysis.



Description	Plate Diameter	Supplier No.	Cat. No.
RODAC™ Plates			
BD Trypticase™ Soy Agar with Lecithin and Polysorbate 80	100 mm	221238	CA90001-274

Prepared Media in Bottles and Plates, BD Diagnostics

A comprehensive line of media for environmental monitoring, sterility testing, standard plate counts, and cultivation of bacteria and fungi. Recent product enhancement has provided a wide range of proprietary formulations to assist in effectively isolating and differentiating pathogenic from non-pathogenic microorganisms. Each is tested against a battery of organisms, both for inhibition and for growth supporting capability.



Description	Packaging	Supplier No.	Cat. No.
BD Trypticase™ Soy Agar with Lecithin and Polysorbate 80	BD RODAC™ Plates	221238	CA90001-290

Culture Media, Pall® Life Sciences

Wide range of prepared broth media in convenient 2mL glass or plastic ampules or 100mL bottles for quality control laboratories. These selective and non-selective nutrient broths are also ideal for municipal water, food and beverage, pharmaceutical, and microelectronics industries. All media is certified for use in the membrane filter technique. Store at 2 to 8°C (35.6 to 46.4°F).



Description	Packaging	Supplier No.	Cat. No.
Trypticase Soy Broth, Total Bacteria	2 mL Plastic Ampule	4307	CA28145-686
M-TGE Broth, Total Bacteria	2 mL Plastic Ampule	68106	CA28145-740
MF-Endo Broth, Total Coliforms	2 mL Plastic Ampule	68105	CA28150-500
M-Green YM Broth	2 mL Plastic Ampule	68107	CA28150-504
Orange Serum Broth, Lactobacillus sp.	2 mL Plastic Ampule	68109	CA28150-506

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InTray™ Media, BioMed

InTray™ is an easy-to-use, fully enclosed microbiology cassette used for sample collection, transport, and culture. This single, stackable device – performing multiple procedures – reduces cost, increases efficiency, and ensures accuracy. InTray samples can be observed under a microscope through anti-fogging, optically clear plastic, eliminating the need to separately prepare a wet mount slide. The fully enclosed system features controlled air exchange to protect against exposure or contamination, and is ideal for field use or austere environments. The shelf life of six months or more (from date of manufacture) helps ease inventory management and loss. InTray™ products featuring Colorex™ technology produce easy-to-interpret visual results via color changes.

InTray™ SDA (Sab Dex Agar) Is a general-purpose sample collection, transport & culture device for growth & observation of pathogenic & non-pathogenic fungi. The InTray™ can be viewed while sealed combining the petri & wet mount reducing lab time and costs while increasing safety & efficiency.

InTray™ SAB+ PVG antibiotics is a general-purpose collection, transport & culture device for growth & observation of pathogenic & non-pathogenic fungi. The addition of PVG antibiotics aids in culture of samples with suspected high levels of bacterial contamination

InTray™ PDA is a general-purpose sample collection, transport and culture device for the growth & observation of many species of organisms. The InTray™ can be viewed sealed combining the petri & wet mount reducing lab time and costs while increasing safety.

InTray™ EMB, A selective sample collection, transport and culture device for simultaneous growth, detection & differentiation of gram-negative enteric bacteria. InTray™ provides flexibility to inoculate, transport & read results in one, fully enclosed device reducing exposure to specimens.

InTray™ MSA (Mannitol Salt Agar) A sample collection, transport & culture device for differentiation & enumeration of staphylococci from clinical & non-clinical materials using membrane filtration procedures. InTray™ can be viewed sealed saving time while increasing efficiency and safety.

InTray™ Baird Parker is a selective sample collection, transport and culture device for the detection and differentiation of coagulase-positive staphylococci. Can be viewed sealed saving time and increasing lab efficiency and safety. Results can occur within 24 hours.

InTray™ KF Strep, A microbiology sample collection, transport & culture device with selective indicator medium for use in total colony count of fecal streptococci in water samples using membrane filtration procedures. Can be viewed while sealed increasing efficiency and safety.

InTray™ Malt Extract, A microbiology sample collection, transport and culture device for use in enumeration of a broad spectrum of yeasts and molds from a wide variety of specimen types including clinical, food and water samples. Can be viewed while sealed increasing lab efficiency and safety

InTray™ mE Agar is a sample collection, transport, and culture device used together with the InTray™ EIA for isolation, differentiation and enumeration of enterococci in water samples using membrane filtration procedures following APHA standard method 9230 C.

InTray™ EIA (Esculin Iron Agar) is used in tandem with InTray™ mE Agar for confirmation & enumeration of enterococci from membrane filtration samples following APHA standard method 9230 C. Distinct chromogenic differentiation on the InTray™ EIA makes counting easy saving time.

nTray™ mEndo LES is a collection, transport and culture device for total coliform enumeration from membrane filtration samples using standard methods 9222 A, B, C in accordance with EPA rule 40 CFR 141. View sealed to save time while increasing efficiency & safety.



Description	Supplier No.	Cat. No.
InTray™ mEndo LES, 20-pk	20-1601	89219-910
InTray™ mEndo LES, 5-pk	20-1607	89219-912
InTray™ Rose Bengal, 20-pk	20-2401	89219-918
InTray™ Rose Bengal, 5-pk	20-2407	89219-920
InTray™ Baird Parker, 20-pk	20-1001	89219-930
InTray™ Baird Parker, 5-pk	20-1007	89219-932

Custom Manufacturing

In addition to the products listed in our catalogue, Anachemia has the manufacturing capabilities to produce almost any chemical formulation or custom package size or type that your organization may need. Whether your goal is to reduce your staff's time spent preparing formulations used in your lab or to have product pre-packaged in single dose units, Anachemia's experienced chemical manufacturing personnel can assist you.

Contact us at **(800) 361-0209** to request a quote on custom chemical products.



InTray™ Colorex™ Media, BioMed

Distinctive color and morphology differences produced by Colorex™ technology make preliminary bacteria detection easy with InTray™ Colorex devices. The Colorex™ premium chromagenic microbiology media, available in InTray™ through a partnership with CHROMagar™ of France, permits single-step isolation and differentiation of pathogenic micro-organisms based simply on colony color.

InTray™ Colorex™ Yeast is a microbiology sample collection, transport and culture device for simultaneous growth, observation, and chromogenic differentiation of selected *Candida* species. Combining several procedures into one device saves lab time & reduces costs.

InTray™ Colorex™ VRE is a collection, transport & culture device for growth & chromogenic differentiation of vancomycin resistant enterococci. 98.2% sens and 96.5% spec reduces confirmatory test costs on false positives. For research and identification use only.

InTray™ Colorex™ Screen is a sample collection, transport & culture device for growth, observation & chromogenic differentiation of pathogenic species found in UTI. *E. coli* & *Enterococcus* are confirmed on initial plate resolving 80% of positives immediately.

InTray™ Colorex™ KPC is a microbiology collection, transport & culture device for growth, observation & chromogenic differentiation of microbes resistant to carbapenem class antimicrobials. 100% sens & is 98.4% selective w/ direct plating. For research and ID use only

InTray™ Colorex™ ESBL is a sample collection, transport & culture device for simultaneous growth, observation and chromogenic differentiation of extended spectrum beta-lactamase producing gram-negative bacteria. This test is 99.2% sens and 98.4% selective.

InTray™ Colorex™ ECC, For the detection, chromogenic differentiation and enumeration of *E. coli* & other coliforms from food, water, environmental, and raw materials samples. Differentiated *E. coli* from coliforms aids in determining whether contaminants are organic or fecal on one plate

InTray™ Colorex™ Listeria, Collection, transport and culture device for growth, detection & chromogenic differentiation of *L. monocytogenes* from food samples. Transfer suspect colonies to the InTray™ Colorex™ ID Listeria for confirmation of *L. monocytogenes*.

InTray™ Colorex™ ID Listeria, is used in tandem with the InTray™ Colorex™ Listeria for confirmation of *L. monocytogenes*. Both devices used together offer a convenient, cost effective alternative to PCR testing with results in 48hrs

The InTray™ Colorex™ Listeria SET contains 20 tests each of Colorex™ Listeria AND Colorex™ ID Listeria. For growth, color-based detection and confirmation of *L. monocytogenes* in two simple steps.

InTray™ Colorex™ O157, A microbiology collection, transport & culture device for simultaneous growth, observation and chromogenic differentiation of *E. coli* O157. This device is 98% sensitive and the *E. coli* O157 color change reduces cost of confirmatory testing on false positives.

InTray™ Colorex™ Salmonella, A microbiology sample collection, transport & culture device for simultaneous growth, observation & chromogenic differentiation of the *Salmonella* genus of bacteria. Serotyping & slide agglutination can be performed directly from the plate saving time.



Description	Application	Storage Temperature	Incubation Conditions	Supplier No.	Cat. No.
InTray™ COLOREX™ O157, 20-pk	Detection of <i>E. coli</i> O157	Refrigeration (2-8°C)	18-24 hours at 37°C	10-7601	89219-838
InTray™ COLOREX™ O157, 5-pk	Detection of <i>E. coli</i> O157	Refrigeration (2-8°C)	18-24 hours at 37°C	10-7607	89219-840
InTray™ COLOREX™ ECC, 20-pk	Detection of <i>E. coli</i> and other coliforms	Refrigeration (2-8°C)	18-24 hours	10-7401	89219-842
InTray™ COLOREX™ ECC, 5-pk	Detection of <i>E. coli</i> and other coliforms	Refrigeration (2-8°C)	18-24 hours	10-7407	89219-844
InTray™ COLOREX™ Listeria, 20-pk	Detection of <i>Listeria</i> , with <i>Listeria monocytogenes</i> confirmation	Refrigeration (2-8°C)	18-24 hours	10-7501	89219-846
InTray™ COLOREX™ Listeria, 5-pk	Detection of <i>Listeria</i> , with <i>Listeria monocytogenes</i> confirmation	Refrigeration (2-8°C)	18-24 hours	10-7507	89219-848
InTray™ COLOREX™ ID Listeria, 20-pk	Detection of <i>Listeria</i> , with <i>Listeria monocytogenes</i> confirmation	Refrigeration (2-8°C)	18-24 hours	10-7511	89219-850
InTray™ COLOREX™ ID Listeria, 5-pk	Detection of <i>Listeria</i> , with <i>Listeria monocytogenes</i> confirmation	Refrigeration (2-8°C)	18-24 hours	10-7517	89219-852
InTray™ COLOREX™ Salmonella, 20-pk	Detection of <i>Salmonella</i> species	Refrigeration (2-8°C)	18-24 hours at 37°C	10-7701	89219-858
InTray™ COLOREX™ Salmonella, 5-pk	Detection of <i>Salmonella</i> species	Refrigeration (2-8°C)	18-24 hours at 37°C	10-7707	89219-860
InTray™ COLOREX™ Salmonella Plus, 20-pk	Detection of <i>Salmonella</i> species	Refrigeration (2-8°C)	18-24 hours at 37°C	10-7801	89219-862
InTray™ COLOREX™ Salmonella Plus, 5-pk	Detection of <i>Salmonella</i> species	Refrigeration (2-8°C)	18-24 hours at 37°C	10-7807	89219-864

Brilliant Green Bile Broth, Hardy Diagnostics

For the detection of coliforms in water and food, by .

Size	Packaging	Supplier No.	Cat. No.
10 mL	Tube, Durham	K66	CA89407-400

Buffered Peptone Water, Hardy Diagnostics

A preenrichment used for increasing the recovery of injured *Salmonella* species from food and other specimens prior to selective enrichment and isolation.

Size	Packaging	Supplier No.	Cat. No.
6 mL	Tube	K104	CA89407-424



Campy CVA Agar with 5% Sheep Blood, Hardy Diagnostics

For the selective isolation of cephalothin resistant *Campylobacter* species such as *C. jejuni*, *C. coli*, and *C. lari*. Contains lysed horse blood, cefoperazone and amphotericin.

Size	Volume	Packaging	Supplier No.	Cat. No.
15 x 100 mm	18 mL	Plate	A40	CA89405-034



EMB Levine Agar (Eosin Methylene Blue), Hardy Diagnostics

For isolation and differentiation of gram negative bacilli. Lactose fermenting gram negative colonies will have dark centers. Non-lactose fermentors will be pink or colorless. Some strains of *E. coli* will produce a "green sheen" on this medium.

Size	Volume	Packaging	Supplier No.	Cat. No.
15 x 100 mm	18 mL	Plate	G25	CA89407-238

HE (Hektoen Enteric) Agar, Hardy Diagnostics

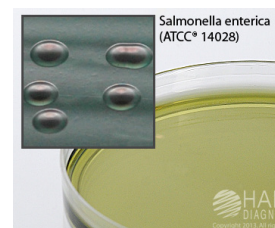
Hektoen Enteric Agar (HE) is for the selective isolation and differentiation of pathogenic Gram negative enteric bacteria, such as the non-lactose fermenting *Salmonella* species and *Shigella* species. Normal stool flora, such as *E. coli*, will be partially inhibited.

Polystyrene Petri plates feature raised rings for stacking ability and prevention of sliding

Packaged in sleeves of 10 plates in a "breathable" cellulose bag that prevents build-up of condensation and excess moisture.

The manufacturing facility and quality management system have achieved ISO 13485 certification as a medical device manufacturer.

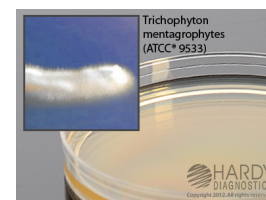
Size	Packaging	Supplier No.	Cat. No.
15 x 100 mm	Plate	G63	CA89407-338



Inhibitory Mold Agar, Hardy Diagnostics

For the selective isolation of pathogenic fungi.

Description	Size	Volume	Packaging	Supplier No.	Cat. No.
Agar	15 x 100 mm	26 mL	Plate	W25	CA89407-612



Iodine-Iodide Solution, Hardy Diagnostics

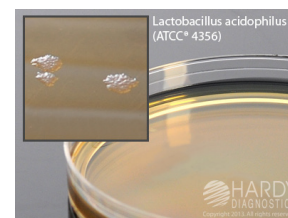
Iodine-Iodide Solution to be added to Tetrathionate Broth, 89407-968 (sold separately). Iodine-Iodide Solution, for Tetrathionate Broth.

Size	Packaging	Supplier No.	Cat. No.
50 mL	Amber Glass Bottle	Z129	CA89407-624

Lactobacilli MRS Agar, Hardy Diagnostics

Lactobacilli MRS Agar is recommended for the isolation, enumeration and cultivation of *Lactobacillus* spp.

Description	Size	Volume	Packaging	Supplier No.	Cat. No.
Agar	15 x 100 mm	18 mL	Plate	G117	CA89407-144
Agar	15 x 60 mm	11 mL	Plate	G176	CA89407-190



Lactose Broth, CRITERION™, Hardy Diagnostics

CRITERION™ Lactose Broth is used to detect coliforms in food, dairy products, and water, and to preenrich samples for the recovery of *Salmonella* species. Dehydrated culture media with engineered container.

Custom and bulk products available. BSE Free documentation available. Over 30 years of formulation experience

BSE Free

Size	Packaging	Supplier No.	Cat. No.
122.4 g	Mylar® zip-pouch to make 2 L	C5940	CA89405-528
500 g	Wide-Mouth Bottle	C5941	CA89405-530
2 kg	Bucket	C5942	CA89405-532
10 kg	Bucket	C5943	CA89405-534

Lauryl Tryptose Broth, Hardy Diagnostics

For the detection of coliforms in water and food. Contains a durham tube for gas detection.

Description	Size	Packaging	Supplier No.	Cat. No.
Single strength	13 mL	Tube, Durham	K33	CA89407-684
with MUG, double strength	10 mL	Tube	K44	CA89407-740

MacConkey Agar, Hardy Diagnostics

For the isolation and differentiation of Gram negative bacteria, especially the *Enterobacteriaceae* group.

Advanced formula controls the swarming of *Proteus*.

Polystyrene Petri plates feature raised rings for stacking ability and prevention of sliding

Packaged in sleeves of 10 plates in a "breathable" cellulose bag that prevents build-up of condensation and excess moisture. Also available in a box of 100 dishes; see 89407-270.

Description	Size	Packaging	Supplier No.	Cat. No.
Agar	19 mL	Plate	G35	CA89407-268

Mannitol Salt Agar (MSA), Hardy Diagnostics

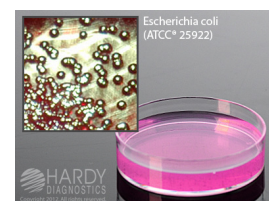
For the selective isolation and differentiation of *Staphylococcus* spp.

Size	Volume	Packaging	Supplier No.	Cat. No.
15 x 100 mm	18 mL	Plate	G40	CA89407-278

mEndo LES Agar, Hardy Diagnostics

For the enumeration of coliforms from water specimens by membrane filter technique.

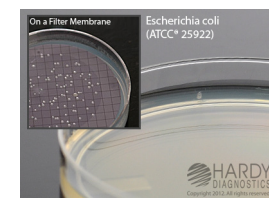
Size	Volume	Packaging	Supplier No.	Cat. No.
15 x 60 mm	11 mL	Plate	G128	CA89407-156



m-HPC (Heterotrophic Plate Count) Agar, Hardy Diagnostics

For the enumeration of heterotrophic microorganisms in water samples using membrane filtration technique.

Size	Volume	Packaging	Supplier No.	Cat. No.
15 x 60 mm	11 mL	Plate	G95	CA89407-694



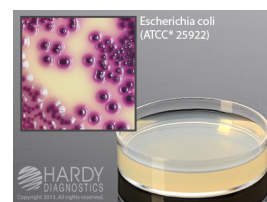
mPA Agar, Hardy Diagnostics

For the cultivation and enumeration of *Pseudomonas aeruginosa* in water by membrane filtration.

Size	Volume	Packaging	Supplier No.	Cat. No.
15 x 60 mm	11 mL	Plate	G133	CA89407-160

mTEC Agar, Modified, Hardy Diagnostics

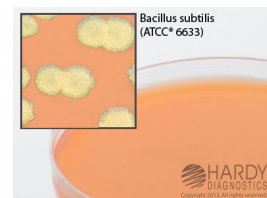
Modified mTEC Agar is recommended for selective chromogenic differentiation and enumeration of *Escherichia coli* in water, using membrane filtration.



Size	Volume	Packaging	Supplier No.	Cat. No.
15 x 60 mm	11 mL	Plate	G106	CA89407-136

MYP (Mannitol Yolk Polymyxin) Agar, Hardy Diagnostics

For use in the enumeration of *Bacillus cereus* from foods.



Size	Volume	Packaging	Supplier No.	Cat. No.
15 x 100 mm	18 mL	Plate	G147	CA89407-168

Potato Dextrose Agar, Hardy Diagnostics

Potato Dextrose Agar for the cultivation of yeasts and mold, also with Tartaric Acid for the cultivation and enumeration of fungi.

Description	Size	Packaging	Supplier No.	Cat. No.
with Sodium Thiosulfate	100 mL	Glass Bottle	U94	CA89407-820
Agar	26 mL	Plate	W60	CA89407-826
with TA (Tartaric Acid) pH 3.5 +/-0.2	10 mL	Plate	W96	CA89407-836

Rose Bengal Agar with Chloramphenicol, Hardy Diagnostics

For the selective isolation and enumeration of yeasts and molds. Many yeasts and molds will not grow in an acidic pH environment. This media has a neutral pH which helps grow yeast and mold, but is also conducive to the growth of bacteria. The addition of chloramphenicol helps reduce bacterial overgrowth.

Size	Packaging	Supplier No.	Cat. No.
24 mL	Plate	W87	CA89407-862

Sabdex Agar with Lecithin and Tween® 80, CRITERION™, Hardy Diagnostics

CRITERION™ Sabouraud Dextrose Agar (Sabdex) with Lecithin and Tween® 80 is recommended for the cultivation of fungi from environmental surfaces.

Dehydrated culture media with engineered container.

Custom and bulk products available. BSE Free documentation available. Over 30 years of formulation experience

BSE Free

Size	Packaging	Supplier No.	Cat. No.
122.4 g	Mylar® zip-pouch to make 2 L	C6800	CA89405-990
500 g	Wide-Mouth Bottle	C6801	CA89405-992
2 kg	Bucket	C6802	CA89405-994
10 kg	Bucket	C6803	CA89405-996

Standard Methods Agar, CRITERION™, Hardy Diagnostics

CRITERION™ Standard Methods Agar (Plate Count Agar) is recommended for use in determining the microbial content in dairy products, food, water and other material of sanitary importance. Dehydrated culture media with engineered container.

Custom and bulk products available. BSE Free documentation available. Over 30 years of formulation experience

BSE Free

Size	Packaging	Supplier No.	Cat. No.
122.4 g	Mylar® zip-pouch to make 2 L	C6980	CA89406-062
500 g	Wide-Mouth Bottle	C6981	CA89406-064
2 kg	Bucket	C6982	CA89406-066
10 kg	Bucket	C6983	CA89406-068

TCBS Agar, Hardy Diagnostics

Thiosulfate Citrate Bile Sucrose for the selective isolation of pathogenic vibrios.

Size	Volume	Packaging	Supplier No.	Cat. No.
15 x 100 mm	18 mL	Plate	G55	CA89407-328

Tetrathionate Broth, Hardy Diagnostics

For the selective enrichment of *Salmonella* species. Use with iodine-iodide solution 89407-624.

Size	Volume	Packaging	Supplier No.	Cat. No.
16 x 125 mm	10 mL	Tube	K65	CA89407-968



Tryptic Soy Broth (TSB), Hardy Diagnostics

For the differentiation of Enterococci from Group D Streptococci, and the cultivation of microorganisms. Also known as TSB or Soybean-Casein Digest Broth.

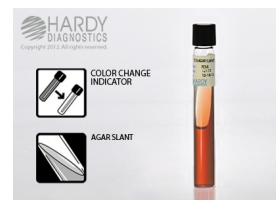
Description	Size	Packaging	Supplier No.	Cat. No.
Broth	10 mL	Tube	K82	CA89408-052
Broth	5 mL	Tube	R30	CA89408-102
Double strength	100 mL	237 mL Polycarbonate Wide-Mouth Jar	U70	CA89408-108



TSI (Triple Sugar Iron), Hardy Diagnostics

For the identification of gram negative bacilli.

Size	Volume	Packaging	Supplier No.	Cat. No.
16 x 125 mm	8 mL	Tube	L50	CA89408-134



Tween®, Hardy Diagnostics

For general laboratory use.

Description	Size	Packaging	Supplier No.	Cat. No.
Tween® 80	5 mL	237 mL Wide Mouth Jar	U11	CA89408-144



Universal Beer Agar, Hardy Diagnostics

For the selective isolation and cultivation of microorganisms significant in the brewing industry.

Size	Volume	Packaging	Supplier No.	Cat. No.
15 x 60 mm	15 mL	Plate	G82	CA89407-350

XLD (Xylose Lysine Deoxycholate) Agar, Hardy Diagnostics

For selective isolation of pathogenic enteric gram negative bacteria.

Size	Volume	Packaging	Supplier No.	Cat. No.
15 x 100 mm	18 mL	Plate	G65	CA89407-184

XLT4 Agar, Hardy Diagnostics

For the selective isolation of non-typhi *Salmonella* species from environmental samples and food.

Size	Volume	Packaging	Supplier No.	Cat. No.
15 x 100 mm	18 mL	Plate	G165	CA89407-184

Yeast and Mold Agar, Hardy Diagnostics

Is a dehydrated culture media supplement. Use this product with XLT-4 Agar Base (89406-636). Contains hazardous material, a hazardous shipping fee will be applied.

Size	Volume	Packaging	Supplier No.	Cat. No.
15 x 100 mm	18 mL	Plate	G01	CA89407-124

Yeast Peptone Dextrose (YPD) Broth, Hardy Diagnostics

Yeast Peptone Dextrose (YPD) Broth, 500ml polycarbonate bottle, 500ml fill, order by the each, by CulGenex™



Size	Packaging	Supplier No.	Cat. No.
500 mL	Polycarbonate Bottle	CG91	CA89407-088

Tryptic Soy Agar (TSA), CRITERION™, Hardy Diagnostics

CRITERION™ Tryptic Soy Agar is recommended for use as a general growth medium for the isolation and cultivation of microorganisms. This medium is also recommended for use in the cultivation, storage, and transportation of pure cultures of bacteria.

CRITERION™ Dehydrated Culture Media and container.

Custom and bulk products available. BSE Free documentation available. Over 30 years of formulation experience

BSE Free

Size	Packaging	Supplier No.	Cat. No.
122.4 g	Mylar® zip-pouch to make 2 L	C7120	CA89406-158
500 g	Wide-Mouth Bottle	C7121	CA89406-160
2 kg	Bucket	C7122	CA89406-162
10 kg	Bucket	C7123	CA89406-164

BBL™ Trypticase™ Soy Agar, BD

Trypticase Soy Agar, also referred to as Soybean-Casein Digest Agar, is used for the isolation and cultivation of non-fastidious and fastidious microorganisms. It is not the medium of choice for anaerobes. Prepared Plated Media.

Description	Size	Shelf Life	Weight	Supplier No.	Cat. No.
Trypticase™ Soy Agar, Plated	20/sp	112 Days	1.058 oz. Each	221185	CA90001-254

HARLECO® Hematology Stains and Reagents, EMD Millipore

For use in hematology applications. Stains are manufactured with materials that are certified by the Biological Stain Commission.

The Hemacolor® stain set 15204-176 is for rapid manual staining of blood smears, microorganisms, and spermatozoa. The staining pattern of the hematological smear corresponds to classical staining patterns of the Wright and Wright-Giemsa stains. The set includes a methanol fixative (Solution 1), an eosin or acid stain (Solution 2), and a methylene blue or basic stain (Solution 3), which can also be ordered separately. The set comes ready to use and does not require a separate buffer. Staining time is 15 seconds.

Ordering Information: Hemacolor® stain set consists of three 500mL (16.9oz.) poly bottles packaged in a chipboard box. Wright and Wright Giemsa stain packs contain three poly bottles packaged in a chipboard box: one 250mL (8.4oz.) bottle of 0.17% stain in methanol, one 500mL (16.9oz.) bottle of inorganic buffer, pH6.7; and one 1L (0.26gal.) bottle of 10% methanol buffer. All other products are packaged in poly bottles. Contact your VWR sales representative for more information on hematology stain solutions for all peripheral blood and bone marrow applications.



Description	Volume	Supplier No.	Cat. No.
Giemsa Stain, Azure B	500 mL (16.9 oz.)	619/71	CA15204-142
Giemsa Stain, Original Azure Blend	1 L (33.8 oz.)	620G-75	CA15204-144
Wright Giemsa Solution, Fucillo	1 L (33.8 oz.)	64571-75	CA15204-158
Wright Solution	1 L (33.8 oz.)	740-75	CA15204-228

HARLECO® Microbiology and General Use Stains, EMD Millipore

Stains are manufactured with materials that are certified by the Biological Stain Commission.

Ordering Information: The gram staining set (15204-196) consists of one 500mL poly bottle of each of crystal violet, decolorizer, iodine, and safranin stain.



Description	Size	Packaging	Supplier No.	Cat. No.
Fuchsin, Carbol, Ziehl-Neelson	950 mL (32 oz.)	Poly Bottle	6051X-75	CA15204-136
Lugol's Iodine	500 mL (16.9 oz.)	Glass Bottle	624-71	CA15204-148
Crystal Violet	4 x 500 mL (16.9 oz.)	Poly Bottle	65092A-95	CA15204-189
Iodine	4 x 500 mL (16.9 oz.)	Glass Bottle	65092D-95	CA15204-193
Decolorizer	4 x 500 mL (16.9 oz.)	Poly Bottle	6.5092E-95	CA15204-195
Gram Staining Set			65092-93	CA15204-197
Loeffler's Methylene Blue	1 L (33.8 oz.)	Poly Bottle	687X/75	CA15204-202
Decolorizer	3.8 L (1 gal.)	Poly Bottle	65092E-85	CA15204-282
Iodine	3.8 L (1 gal.)	Poly Bottle	65092D-85	CA15204-284
Safranin	3.8 L (1 gal.)	Poly Bottle	65092B/85	CA15204-286
Crystal Violet	3.8 L (1 gal.)	Poly Bottle	65092A/85	CA15204-288
Sulfosalicylic Acid, 3%	1 L (33.8 oz.)	Glass Bottle	1506A-75	CA34172-026
Sulfosalicylic Acid, 20%	1 L (33.8 oz.)	Glass Bottle	1507-75	CA34172-070
Safranin	4 x 500 mL (16.9 oz.)	Poly Bottle	65092B-95	CAD65092B-95

Modified Lethen Agar, CRITERION™, Hardy Diagnostics

CRITERION™ Modified Lethen Agar is used to determine the antimicrobial activity of quaternary ammonium compounds. Dehydrated culture media with engineered container.

Custom and bulk products available. BSE Free documentation available. Over 30 years of formulation experience

BSE Free



Size	Packaging	Supplier No.	Cat. No.
122.4 g	Mylar® zip-pouch to make 2 L	C7900	CA89406-560
500 g	Wide-Mouth Bottle	C7901	CA89406-562
2 kg	Bucket	C7902	CA89406-564
10 kg	Bucket	C7903	CA89406-566

PDX-SIB, Environmental Screen, Hardy Diagnostics

Media for the detection of *Salmonella*, AOAC RI approved, 24-48 hour result, closed system, no special equipment needed, use with EnviroMAX sampling sponge on a stick 89405-022.

The easiest environmental *Salmonella* test available. This test is both reliable and inexpensive with presumptive results available for the most common *Salmonella* spp, within 24-48 hours, no sub-culturing or specimen transfers required.

Just collect your sample, inoculate the PDX-SIB media, and incubate. Sampling devices are not included.

Salmonella selective enrichment media containing a *Salmonella* -specific metabolic indicator.

Broth turns yellow when *Salmonella* species is present.

Excellent critical control point surveillance tool.

PDX-SIB was subjected to a panel of more than 100 *Salmonella* and non-*Salmonella* organisms. The test exhibited 98.5% sensitivity with 95% specificity. The tests were conducted with inocula at both low (<10 CFU per sample) as well as high (>100 CFU per sample).



Size	Supplier No.	Cat. No.
kit	2600325	CA89404-954



LAB ESSENTIALS

GENERAL GLASSWARE

LIQUID HANDLING

MIXING, SHAKING & STIRRING

HEATING & COOLING

MAGNIFIERS & MICROSCOPES

TEMPERATURE & DATALOGGING

WEIGHING

WATER PURIFICATION SYSTEMS

CONSUMABLES & SUPPLIES

EQUIPMENT & INSTRUMENTS

SAMPLE SHIPMENT

FURNITURE

WASTE DISPOSAL

Rapid Test Systems, EMD Millipore

Significantly reduce waiting time when testing for the presence or absence of microbial contamination. When properly administered, test results are available after 20 minutes. Tests are available for verotoxins, Campylobacter, Legionella, Listeria, E. coli, and Salmonella. Used in conjunction with granulated culture media for enrichment, these tests assure a true positive or negative result.



Description	Singlepath Salmonella	Duopath Legionella
Sensitivity	100%	93%
Specificity	100%	99%

Description	No. of Tests	Supplier No.	Cat. No.
Singlepath Salmonella Test	25	1.04140.0002	CA1.04140.0002
Singlepath Campylobacter Test	25	1.04143.0002	CA1.04143.0002
Duopath® Legionella Test	25	1.04147.0002	CA104147.0002

PDX-LIB Media, Hardy Diagnostics

Media for the detection of *Listeria* species from the environment, AOAC RI approved, 24-30 hour result, closed system, no special equipment needed, use with EnviroMAX sampling sponge on a stick 89405-022. This test is both reliable and inexpensive with presumptive results available for the most common *Listeria* spp, within 30 hours, no sub-culturing or specimen transfers required. Simply collect your sample, inoculate the PDX-LIB media, and incubate. Detect as low as 10-50 heat injured *Listeria monocytogenes* per ml within 24-30 hours of incubation. Comparable results to USDA methods. The test is AOAC-RI approved. Sampling devices are not included.

Description	Size	Packaging	Supplier No.	Cat. No.
PDX-LIB Media	20 mL	Tube	2500325	CA89404-952

VWR COLLECTION

VWR® Griffin Low Form Beakers with Double-Capacity Scale, Borosilicate Glass

Beakers feature a thick, slightly flared, beaded top with a spout designed to have excellent pouring characteristics. They have uniform walls and are made of Type I, Class A borosilicate glass. Beakers 20mL and larger are printed with an easy-to-read white graduated scale for approximate measurement. All beakers feature a durable matte finish marking area suitable for use with an ordinary pencil.



Capacity	Graduation Interval	Graduation Range	Cat. No.
10 mL (0.34 oz.)	—	—	89000-192
20 mL (0.68 oz.)	5 mL	5–15 mL	89000-194
30 mL (1 oz.)	10 mL	5–25 mL	89000-196
50 mL (1.7 oz.)	10 mL	10–40 mL	89000-198
100 mL (3.4 oz.)	10 mL	20–80 mL	89000-200
150 mL (5 oz.)	20 mL	20–140 mL	89000-202
250 mL (8.5 oz.)	25 mL	25–200 mL	89000-204
400 mL (14 oz.)	25 mL	25–325 mL	89000-206
600 mL (20 oz.)	50 mL	50–500 mL	89000-208
800 mL (27 oz.)	50 mL	50–750 mL	89000-210
1 L (34 oz.)	50 mL	100–1000 mL	89000-212
1.5 L (51 oz.)	200 mL	200–1400 mL	89000-214
2 L (68 oz.)	100 mL	200–2000 mL	89000-216
4 L (1 gal.)	500 mL	500–3500 mL	89000-218

VWR® Volumetric Flasks, Class A, with [ST] Glass Stopper

Flasks feature a single graduation ring blasted on the neck and are calibrated to contain. Sizes 10mL and larger are supplied with a [ST] ground glass stopper with a marking spot.

Sizes 5mL and larger meet ASTM Specification E288, Class A unserialized requirements. Sizes 1 and 2mL are test tube-shaped and calibrated to E237 tolerances.

Capacity	[ST] Stopper No.	Tolerance	Cat. No.
1 mL	8	±0.01 mL	89000-392
2 mL	8	±0.015 mL	89000-394
5 mL	9	±0.02 mL	89000-396
10 mL	9	±0.02 mL	89000-398
50 mL	9	±0.05 mL	89000-402
100 mL	13	±0.08 mL	89000-404
200 mL	16	±0.10 mL	89000-406
250 mL	16	±0.12 mL	89000-408
500 mL	19	±0.20 mL	89000-410
1 L	22	±0.30 mL	89000-412
2 L	27	±0.50 mL	89000-414

VWR® Volumetric Flasks, Class A, with [ST] Polyethylene Stopper

Flasks feature a single graduation ring blasted on the neck and are calibrated to contain. Flasks are supplied with a polyethylene stopper to fit in the ground neck.

Meet ASTM E288, Class A requirements.

Capacity	[ST] Stopper No.	Tolerance	Cat. No.
5 mL	9	±0.02 mL	89041-922
10 mL	9	±0.02 mL	89041-924
25 mL	9	±0.03 mL	89041-926
50 mL	9	±0.05 mL	89041-928
100 mL	13	±0.08 mL	89041-930
200 mL	16	±0.10 mL	89041-932
250 mL	16	±0.12 mL	89041-934
500 mL	19	±0.20 mL	89041-936
1 L	22	±0.30 mL	89041-938
2 L	27	±0.50 mL	89041-940



VWR® Weighing Funnel

Combination weighing vessel/funnel for speedy, precise weighing and transfer of samples without loss. Made of thin-walled glass. Flattened base provides stable rest on balance pan.



Material	Capacity	Diameter	Length	Cat. No.
Glass	1.6 mL (0.05 oz.)	1.5 cm (9/16")	4.0 cm (1 9/16")	30287-029
Glass	6 mL (0.2 oz.)	2.5 cm (1")	6.5 cm (2 9/16")	30287-040

Sustainability with VWR

At VWR, we recognize that being a good corporate citizen is in the best interest of our customers, our community, and our company. Therefore, we follow the three primary goals as defined by the United Nations for sustainability: Environmental Protection, Social Impact, and Economic Growth. For more information, visit ca.vwr.com/sustainability.





VWR® Safe-T-Flex Caps

Safe-T-Flex caps feature a unique, flexible, over-locking design that locks securely on the outside of the tube lip and can be removed with one hand. A tight seal ensures sample integrity and prevents spillage or evaporation of serum samples. This special seal protects against the aerosols of highly infectious organisms such as TB and the HTLV-III virus.

Caps fit all varieties of blood collecting and disposable culture tubes. They are color-coded for easy specimen identification and to help guard against cross-contamination. Top of cap can also be numbered or labelled with indelible ink. Self-locking caps hold firmly in any position and keep contents secure while travelling. Liquid-tight seal withstands centrifugation, agitation, refrigeration, and freezing. Manufactured from polyethylene.



Color	Cat. No.
For 10 mm Blood Collecting and Culture Tubes	
Blue	60828-708
Green	60828-706
Lavender	60828-704
Red	60828-702
White	60828-700
Yellow	60828-712



VWR® Culture Tubes, Reusable, Borosilicate Glass

Tubes are made from Type I, Class A borosilicate glass and feature a durable white ceramic enamel marking spot. Fire-polished top rim and uniform wall thickness provide maximum heat transfer and chemical resistance.

Meet ASTM Specification E982, Type IV requirements.



Volume	O.D. x L	Cat. No.
4 mL	10 x 75 mm	89000-494
6 mL	12 x 75 mm	89000-496
10 mL	13 x 100 mm	89000-498
15 mL	16 x 100 mm	89000-502
16 mL	15 x 125 mm	89000-500
20 mL	16 x 125 mm	89000-504
24 mL	16 x 150 mm	89000-506
28 mL	18 x 150 mm	89000-508
36 mL	20 x 150 mm	89000-510
55 mL	25 x 150 mm	89000-512



VWR® Test Tubes, Borosilicate Glass

Made from Type I, Class A borosilicate glass, tubes feature a sturdy lip and uniform wall thickness for maximum heat transfer and chemical resistance. Durable white ceramic enamel marking spot.

Meet ASTM Specification E982, Type I requirements.



Volume	Tube Dimensions	Cat. No.
4 mL	10 x 75 mm	89000-476
6 mL	12 x 75 mm	89000-478
10 mL	13 x 100 mm	89000-480
16 mL	15 x 125 mm	89000-482
24 mL	16 x 150 mm	89000-484
28 mL	18 x 150 mm	89000-486
36 mL	20 x 150 mm	89000-488
55 mL	25 x 150 mm	89000-490
75 mL	25 x 200 mm	89000-492

VWR Signature™ Ergonomic High Performance Multichannel Pipettors

- Superior Accuracy and Precision for Critical Applications
- Updated and Improved Ergonomic Design
- Volumes from 0.5 to 300 µL
- Fully Autoclavable

These multichannel pipettors provide superior accuracy and precision for repeatably reliable results. Innovative ergonomic features allow for consistently comfortable pipetting, even throughout prolonged use. Designed to handle multiple samples simultaneously, pipettors are available in 8- or 12-channel formats.

Upgraded ergonomic features on the multichannel models include reduced plunger and volume adjustment force to significantly reduce the strain associated with repetitive pipetting procedures. An extended, curved finger rest allows the pipettor to balance securely upon the index finger of the user. Volume setting is continuously adjustable via the micrometer wheel or dispenser button, and can be locked to prevent accidental changes while in use. This also allows a variety of different volumes to be dispensed through a single pipettor, with no limitations on designated increments. Tapered cones provide a universal tip fit and the adjustable tip ejector accommodates a variety of tips. An individual tip cone suspension system reduces the force necessary to load tips, as well as the force necessary to eject tips.

These lightweight, durable pipettors are fully autoclavable and supplied with a tool for in-lab calibration. Stand sold separately.



Description	Volume	Accuracy	Precision	Cat. No.
8-Channel Pipettor	1–10 µL	±8.0–2.0%	≤8.0–2.0%	89079-944
8-Channel Pipettor	5–50 µL	±4.0–1.6%	≤4.0–1.6%	89079-946
8-Channel Pipettor	20–200 µL	±2.0–1.0%	≤1.5–0.8%	89079-948
8-Channel Pipettor	50–300 µL	±1.6–1.0%	≤1.5–0.8%	89079-950
12-Channel Pipettor	1–10 µL	±8.0–2.0%	≤8.0–2.0%	89079-952
12-Channel Pipettor	5–50 µL	±4.0–1.6%	≤4.0–1.6%	89079-954
12-Channel Pipettor	20–200 µL	±2.0–1.0%	≤1.5–0.8%	89079-956
12-Channel Pipettor	50–300 µL	±1.6–1.0%	≤1.5–0.8%	89079-958

Accessories

Description	Cat. No.
Stand for 8- or 12-Channel Pipettor	84009-706

VWR Signature™ Ergonomic High Performance Single-Channel Variable Volume Pipettors

- Superior Accuracy and Precision for Critical Applications
- Significantly Reduced Plunger Forces
- Volume Ranges from 0.2 µL to 10 mL
- Fully Autoclavable

Pipettors provide superior accuracy and precision for repeatably reliable results. Innovative new ergonomic design features allow for consistently comfortable pipetting, even throughout extended use. An extended, curved finger rest allows the pipettor to be comfortably balanced on the index finger, and both plunger and volume adjustment forces have been significantly reduced to eliminate the strain of repetitive pipetting. Volume setting is continuously adjustable using either the micrometer wheel or dispenser button. A locking mechanism prevents accidental volume shift while the instrument is in use.

Pipettors are available with or without a tip ejector. To accommodate a wide variety of tips, the easy grip ejector system provides adjustment of the ejector height. The stainless steel construction of the ejector prevents corrosion and bending. A padded grip is fitted onto the top of the ejector arm for easy removal. The lower portion of the arm fits tightly around the pipettor shaft for access to the bottom of the narrowest tubes.

These lightweight, durable pipettors are fully autoclavable and supplied with a tool for in-lab calibration.

Standard starter kit includes three pipettors with tip ejectors (2–20µL, 20–200µL, and 100–1000µL), two racks of VWR Signature pipettor tips, and a three-position shelf clip. The micro starter kit includes three pipettors with tip ejectors (0.2–2µL, 0.5–10µL, and 10–100µL), two racks of VWR Signature pipettor tips, and a three-position shelf clip. The promotional pack includes four pipettors with tip ejectors (0.5–10µL, 2–20µL, 20–200µL, and 100–1000µL), three racks of Axxygen pipettor tips, and a six-position linear stand. Starter kits and accessory items are sold separately.

Ordering Information: Pipettors come with a three year warranty.

Description	Volume	Accuracy	Precision	Cat. No.
Pipettor with Tip Ejector	20–200 µL	±2.5–0.5%	≤0.6–0.2%	89079-970
Pipettor with Tip Ejector	50–250 µL	±1.0–0.6%	≤0.4–0.3%	89079-972
Pipettor with Tip Ejector	100–1000 µL	±0.9–0.6%	≤0.4–0.15%	89079-974
Pipettor with Tip Ejector	1000–5000 µL	±0.6–0.5%	≤0.25–0.15%	89079-976



Continued from previous page

Description	Volume	Accuracy	Precision	Cat. No.
Pipettor with Tip Ejector	1000–10,000 µL	±2.5–0.5%	≤0.6–0.2%	89079-978
Standard Starter Kit	Variable	Variable	Variable	89080-000
Micro Starter Kit	Variable	Variable	Variable	89080-002
Promotional Pack	Variable	Variable	Variable	89080-004

Accessories		Cat. No.
Description		
Carousel Pipettor Stand for 6 Pipettors		40000-270
Linear Pipettor Stand for 6 Pipettors		40000-272
Universal Shelf Clip for 3 Pipettors		89003-074

VWR COLLECTION



VWR Signature™ Aerosol Filter Pipet Tips

- For Use with Most Pipettors

Natural barrier aerosol tips incorporate a special high recovery polyethylene filter that traps aerosols and prevents cross-contamination by keeping the pipettor barrel clean. Certified RNase-, DNase-, endotoxin-, metal-, and human DNA-free. Sterile tips are gamma-irradiated to guarantee product sterility. Autoclavable at 15psi, 122°C (252°F) for 15 minutes.



Description	Volume	Length	Sterility	Packaging	Cat. No.
Bevel Point Tips	1–100 µL	5.1 cm (2")	Nonsterile	96/Hinged Rack	53510-076
Bevel Point Tips	1–100 µL	5.1 cm (2")	Nonsterile	Bulk	53510-094
Bevel Point Tips	1–100 µL	5.1 cm (2")	Sterile	96/Hinged Rack	53510-070
Bevel Point Tips	1–100 µL	5.1 cm (2")	Sterile	Individually Wrapped	53510-098
Bevel Point Tips	1–250 µL	5.1 cm (2")	Nonsterile	96/Hinged Rack	53510-084
Bevel Point Tips	1–250 µL	5.1 cm (2")	Nonsterile	Bulk	53510-044
Bevel Point Tips	1–250 µL	5.1 cm (2")	Sterile	96/Hinged Rack	53510-037
Bevel Point Tips	1–250 µL	5.1 cm (2")	Sterile	Individually Wrapped	53510-056
Bevel Point Tips, Graduated	1–100 µL	5.1 cm (2")	Sterile	96/Hinged Rack	89004-374
Ultrafine Point Tips	100–1000 µL	7.6 cm (3")	Sterile	96/Hinged Rack	89003-420
Ultrafine Point Tips	100–1000 µL	8.9 cm (3 1/2")	Nonsterile	96/Hinged Rack	16466-006
Ultrafine Point Tips	100–1000 µL	8.9 cm (3 1/2")	Nonsterile	Bulk	16466-004
Ultrafine Point Tips	100–1000 µL	8.9 cm (3 1/2")	Sterile	96/Hinged Rack	16466-008
Ultrafine Point Tips	100–1000 µL	8.9 cm (3 1/2")	Sterile	Individually Wrapped	16466-002
Ultrafine Point Tips	1–100 µL	5.1 cm (2")	Nonsterile	96/Hinged Rack	89004-378
Ultrafine Point Tips	1–200 µL	5.1 cm (2")	Nonsterile	96/Hinged Rack	53510-104
Ultrafine Point Tips	1–200 µL	5.1 cm (2")	Nonsterile	Bulk	53510-102
Ultrafine Point Tips	1–200 µL	5.1 cm (2")	Sterile	96/Hinged Rack	53510-106
Ultrafine Point Tips	1–200 µL	5.1 cm (2")	Sterile	Individually Wrapped	53510-100
Ultrafine Point Tips	1–300 µL	7.3 cm (2 7/8")	Nonsterile	Bulk	83007-360
Ultrafine Point Tips	1–300 µL	7.3 cm (2 7/8")	Sterile	96/Hinged Rack	83007-358

Chemical Capabilities—Tried. Trusted. True.

VWR chemicals are suitable for a multitude of analytical and production applications.

Research and Development Applications:

- Acids
- Analytical Reagents
- Buffers
- Fine Chemical Salts
- Solutions
- Solvents
- Standards
- ...and more

Production Applications:

- ACS Grade Chemicals
- Biological Buffers
- Excipients
- Fine Chemicals
- High Purity Solvents
- Inorganic Salts
- Regulated Chemicals
- ...and more

Chemical Related Services:

- Custom Blends and/or Packaging
- Change Notice Verification
- Instant Trackability
- Sourcing
- Storage
- Testing

VWR offers thousands of chemicals from our key brands.

Contact your local VWR Sales Representative or call **800.932.5000** to learn more about how VWR can help you find complete solutions for all of your chemical needs.



Biotix Filter Pipet Tips, Biotix

Biotix tips are manufactured with proprietary technologies for increased pipetting accuracy and precision. The unique Biotix Delta Filter™ alerts the user to potential contamination by changing color upon contact with liquids or aerosols. FlexFit™ provides a flexible nature at the proximal end of the tip to reduce the insertion and ejection forces when using a pipet. Blade™ technology eliminates hanging drops at the distal end of the pipet tip. Select from tips featuring X-Resin™ or Chem-Resin™ to meet your specific application.

Tips made from the proprietary X-Resin™ feature industry-leading low retention surface for maximum sample recovery. Robust sample recovery supports performance and data accuracy in today's most sensitive assays.

Chem-Resin™ provides a more neutral surface tension for working with polar solvents or highly electronegative reagents. The reduced hydrophobicity on the surface facilitates low volume draw and drip-free dispense of these chemical classes.

CE certified. IVD labeled. Certified free of DNA, DNase, RNase, and endotoxins (pyrogens). Manufactured under stringent controls in an ISO 9001 certified facility. Every lot is tested for precision assuring maximum quality and compatibility. All raw materials are traceable.

Ordering Information: Each tray includes a label with a unique bar-coded serial number, part number, and description for high traceability.



Description	Volume	Color	Sterility	Packaging	Supplier No.	Cat. No.
Filter Tip with X-Resin™	10 µl	Clear	Pre-Sterile	96 Tips/Rack, 10 Racks/Pack, 5 Packs/Case	M-0010-9FC	89136-572
Filter Tip, Extended Length with X-Resin™	10 µl XL	Clear	Pre-Sterile	96 Tips/Rack, 10 Racks/Pack, 5 Packs/Case	M-0011-9FC	89136-576
Filter Tip with X-Resin™	20 µl	Clear	Pre-Sterile	96 Tips/Rack, 10 Racks/Pack, 5 Packs/Case	M-0020-9FC	89136-582
Filter Tip with X-Resin™	100 µl	Clear	Pre-Sterile	96 Tips/Rack, 10 Racks/Pack, 5 Packs/Case	M-0100-9FC	89136-580
Filter Tip with X-Resin™	300 µl	Clear	Pre-Sterile	96 Tips/Rack, 10 Racks/Pack, 5 Packs/Case	M-0300-9FC	89136-568
Filter Tip with X-Resin™	1250 µl	Clear	Pre-Sterile	96 Tips/Rack, 10 Racks/Pack, 4 Packs/Case	M-1250-9FC96	89408-550

Accessories		
Description	Supplier No.	Cat. No.
Filter Tip with X-Resin™	M-0010-9FC	89136-572
Filter Tip, Extended Length with X-Resin™	M-0011-9FC	89136-576
Filter Tip with X-Resin™	M-0020-9FC	89136-582
Filter Tip with X-Resin™	M-0100-9FC	89136-580
Filter Tip with X-Resin™	M-0300-9FC	89136-568
Filter Tip with X-Resin™	M-1250-9FC96	89408-550

VWR® and VWR Signature™ Extra Volume Pipet Tips

Designed to simplify aspirating from and dispensing into PCR tubes and plates. Manufactured from polypropylene. Tips have ultrafine points and up to 250µL of headspace to prevent overaspiration and pipettor contamination. Low-binding tips feature a modified polypropylene resin that limits the adhesion of cells, rDNA, and other viscous materials. Tips are RNase-, DNase-, and metal-free. Low-binding tips are also protease and human DNA-free. VWR Signature tips and all sterile tips are endotoxin-free. Sterile tips are gamma-irradiated. Tips and hinged racks are autoclavable to 122°C (252°F).

Description	Volume	Length	Sterility	Packaging	Cat. No.
VWR Signature Low-Binding Tips	100–1250 µL	8.9 cm (3.500")	Nonsterile	96/Hinged Rack	37001-200
VWR Signature Low-Binding Tips	100–1250 µL	8.9 cm (3.500")	Nonsterile	Bulk	37001-204
VWR Signature Low-Binding Tips	100–1250 µL	8.9 cm (3.500")	Sterile	96/Hinged Rack	37001-202
VWR Signature Tips	100–1250 µL	8.9 cm (3.500")	Nonsterile	96/Hinged Rack	53508-918
VWR Signature Tips	100–1250 µL	8.9 cm (3.500")	Nonsterile	Bulk	53508-922
VWR Signature Tips	100–1250 µL	8.9 cm (3.500")	Sterile	96/Hinged Rack	53508-920
VWR Signature Tips	100–1250 µL	8.9 cm (3.500")	Sterile	Individually Wrapped	53508-926



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VWR® 1000 µL Pipet Tips

- For Use with Most Pipettors

These tips provide maximum sample recovery and minimal fluid retention. Transparent polypropylene permits precise viewing of samples. Longer, thinner tip with ultrafine point helps eliminate sample hang-up and allows access to small tubes and deep well plates. The outer wall of the graduated tips has flush calibration lines that eliminate hang-up on specimen tubes. The graduated tips also have markings at 250, 500, 750, and 1000µL. All tips are free of RNase, DNase, and trace metals. Sterile tips are endotoxin-free. Tips and hinged racks are autoclavable.

Ordering Information: Stack Rack refills are stackable racks of tips that use the same bottom and lift-off lid. Stack Racks provide a cost-effective and environment-conscious alternative to racked tips, minimizing unnecessary plastic.



Description	Volume	Length	Color	Sterility	Packaging	Cat. No.
Plain Tips	100–1000 µL	7.6 cm (2.998")	Blue	Nonsterile	Bulk	83007-376
Plain Tips	100–1000 µL	7.6 cm (2.998")	Blue	Nonsterile	96/Hinged Rack	83007-378
Plain Tips	100–1000 µL	7.6 cm (2.998")	Blue	Sterile	96/Hinged Rack	83007-380
Plain Tips	100–1000 µL	7.6 cm (2.998")	Blue	Nonsterile	Stack Rack Refill	89003-422
Graduated Tips	100–1000 µL	7.6 cm (2.998")	Clear	Nonsterile	Stack Rack Refill	89003-424
Graduated Tips	100–1000 µL	7.6 cm (2.998")	Clear	Nonsterile	Bulk	83007-382
Graduated Tips	100–1000 µL	7.6 cm (2.998")	Clear	Nonsterile	96/Hinged Rack	83007-384
Graduated Tips	100–1000 µL	7.6 cm (2.998")	Clear	Sterile	96/Hinged Rack	83007-386



VWR® Macro Pipet Tips

These clear polypropylene pipet tips are free of RNase, DNase, and trace metals. Tips are available for VWR, Biohit®, Eppendorf®, Gilson®, Nichiryo®, HTL, Labnet, and Pipetman® macro pipettors. All tips are autoclavable.



Description	Volume	For Use With	Sterility	Cat. No.
Macro Pipet Tips	1-5 mL	Eppendorf and Biohit Pipettors	Nonsterile	82018-840
Macro Pipet Tips, Graduated	1-5 mL	VWR and Pipetman Pipettors	Nonsterile	82018-842
Macro Pipet Tips	1-5 mL	Biohit, Gilson, Nichiryo, HTL, and Labnet Pipettors	Nonsterile	89087-530
Macro Pipet Tips	1-10 mL	Biohit, Gilson, HTL, and Labnet Pipettors	Nonsterile	89087-532



VWR® Repeating Pipettor

- Dispenses up to 48 Times without Refilling
- Protects Against Sample Contamination
- Comfortable Feel with Smooth Operation
- Available in Starter Pack with VWR® Combi-Syringes

Repeating pipettor dispenses 29 different volumes from 1 to 5000µL. It is ergonomically designed with a slender, ribbed handgrip and easily accessible plunger to reduce fatigue during prolonged pipetting. After selecting the appropriate tip, lock it in place, set volume with click-stop dial, and fill tip with sliding fill lever. All liquid to be dispensed remains isolated in tip, eliminating pipettor and crossover contamination.

Ordering Information: For VWR® Combi-Syringes, see 40000-056 series.



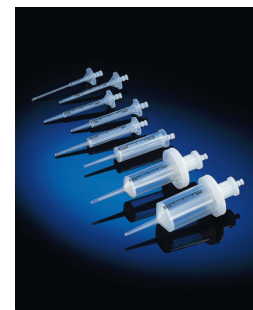
Description	Cat. No.
VWR® Repeating Pipettor	40000-260

VWR® Combi-Syringes for Eppendorf® Repeater® Pipettor

Designed exclusively for VWR repeating pipettors and Eppendorf® Repeater® pipettors. Manufactured from virgin polypropylene with a polyethylene inner plunger. Each reservoir tip is graduated to indicate the total volume and the repetitive volumes that it can dispense.

Note: Combi-syringes will not fit the Eppendorf® Repeater® Plus, the Eppendorf® Repeater® Pro pipettors, or the Eppendorf® Repeater® Stream pipettors.

Ordering Information: Packed in recyclable cartons. All cartons of 25 and 50mL size include four nonsterile adapters. Sterile tips are individually wrapped. Combination set (**40000-050**) includes 20 each of 0.5, 1.25, 2.5, 5.0, and 12.5mL sizes and is available nonsterile only.



Description	Volume	Accuracy	Pipetting Volumes	Precision	Sterility	Cat. No.
Nonsterile Combi-Syringes	0.05 mL	±2.5%	1 µL, 2 µL, 3 µL, 4 µL, 5 µL	±5.0–2.5%	Nonsterile	40000-058
Nonsterile Combi-Syringes	0.5 mL	±0.8%	10 µL, 20 µL, 30 µL, 40 µL, 50 µL	±0.7–0.4%	Nonsterile	40000-000
Nonsterile Combi-Syringes	1.25 mL	±0.8%	25 µL, 50 µL, 75 µL, 100 µL, 125 µL	±0.5–0.2%	Nonsterile	40000-002
Nonsterile Combi-Syringes	2.5 mL	±0.7%	50 µL, 100 µL, 150 µL, 200 µL, 250 µL	±0.4–0.2%	Nonsterile	40000-004
Nonsterile Combi-Syringes	5 mL	±0.4%	100 µL, 200 µL, 300 µL, 400 µL, 500 µL	±0.3–0.2%	Nonsterile	40000-006
Nonsterile Combi-Syringes	12.5 mL	±0.3%	250 µL, 500 µL, 750 µL, 1000 µL, 1250 µL	±0.3–0.1%	Nonsterile	40000-008
Nonsterile Combi-Syringes	25 mL	±0.3%	500 µL, 1000 µL, 1500 µL, 2000 µL, 2500 µL	±0.2–0.1%	Nonsterile	40000-052
Nonsterile Combi-Syringes	50 mL	±0.2%	1000 µL, 2000 µL, 3000 µL, 4000 µL, 5000 µL	±0.2–0.1%	Nonsterile	40000-010
Sterile Combi-Syringes	0.05 mL	±2.5%	1 µL, 2 µL, 3 µL, 4 µL, 5 µL	±5.0–2.5%	Sterile	40000-056
Sterile Combi-Syringes	0.5 mL	±0.8%	10 µL, 20 µL, 30 µL, 40 µL, 50 µL	±0.7–0.4%	Sterile	40000-012
Sterile Combi-Syringes	1.25 mL	±0.8%	25 µL, 50 µL, 75 µL, 100 µL, 125 µL	±0.5–0.2%	Sterile	40000-014
Sterile Combi-Syringes	2.5 mL	±0.7%	50 µL, 100 µL, 150 µL, 200 µL, 250 µL	±0.4–0.2%	Sterile	40000-016
Sterile Combi-Syringes	5 mL	±0.4%	100 µL, 200 µL, 300 µL, 400 µL, 500 µL	±0.3–0.2%	Sterile	40000-018
Sterile Combi-Syringes	12.5 mL	±0.3%	250 µL, 500 µL, 750 µL, 1000 µL, 1250 µL	±0.3–0.1%	Sterile	40000-020
Sterile Combi-Syringes	25 mL	±0.3%	500 µL, 1000 µL, 1500 µL, 2000 µL, 2500 µL	±0.2–0.1%	Sterile	40000-054
Sterile Combi-Syringes	50 mL	±0.2%	1000 µL, 2000 µL, 3000 µL, 4000 µL, 5000 µL	±0.2–0.1%	Sterile	40000-022
Combination Set					Nonsterile	40000-050

Chemical Capabilities—Tried. Trusted. True.

VWR chemicals are suitable for a multitude of analytical and production applications.

Research and Development Applications:

- Acids
- Analytical Reagents
- Buffers
- Fine Chemical Salts
- Solutions
- Solvents
- Standards
- ...and more

Production Applications:

- ACS Grade Chemicals
- Biological Buffers
- Excipients
- Fine Chemicals
- High Purity Solvents
- Inorganic Salts
- Regulated Chemicals
- ...and more

Chemical Related Services:

- Custom Blends and/or Packaging
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VWR offers thousands of chemicals from our key brands.

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Microlab® 300 Series Guided Pipetting System, Hamilton Company

Minimize errors. Attain higher standards. Take control of your pipetting process with the Microlab® 300.

The Microlab® 300 Series Pipettor is a guided pipetting system that dramatically changes the way you approach pipetting in your lab.

Each element works together to maximize efficiency and ease of use while minimizing time, effort and consumed resources. The system features a high torque, precision stepper motor that provides unsurpassed liquid handling accuracy through a single pipette probe that covers a pipetting volume range of 0.5 to 1000 µL—the first of its kind in the industry.

The Microlab® 300 improves the way you work by delivering four core benefits that redefine what it means to properly and competently perform pipetting applications in today's laboratory.

Process Security: Reproducible, run-only methods guide you through traceable pipetting applications while CFR 21 Part 11-compliant log files, password protection and user verification features ensure laboratory accountability.

Process Efficiency: Easy-to-recall stored methods, one-handed access to frequently used methods and automatic volume adjustment in a single probe that covers the entire volume range are all features that allow users to expedite their workflow.

Advanced Ergonomics: The lightest pipette probe in the industry paired with low tip installation and ejection force and innovative button placement form a complete solution to minimize muscle strain and maximize all-day performance.

Liquid Classes: Have confidence in your pipetting accuracy regardless of your liquid's specific properties through standard and customizable liquid classes.

ClickSure™ Technology: Less Force, More Comfort.

The hand probe utilizes Hamilton's unique, environmentally friendly ClickSure™ tips for superior user performance. When ClickSure™ tips are placed onto the probe, the O-ring inside the probe compresses. This low insertion force results in a more ergonomic experience for the user that enables long-term use with minimal energy exerted. Because the force required to attach a ClickSure™ tip is minimal compared to traditional pipettes, technicians do not need to heavily push the probe into a box of tips and can instead conserve their energy. Other tip benefits and features include: two tips, 50µL and 1mL, which cover the entire pipetting volume range which means less inventory to store; tip packaging and tips are recyclable for eco-conscious labs; tip packaging uses 37% less plastic than leading competitor's packaging, saving on shipping weight and fossil fuels. For more information on the Microlab 300® Series Guided Pipetting System, please refer to the catalog available on this page.

CE and CSA Certified

Ordering Information: All Microlab 300 Series Pipettor orders ship with a Controller, a Disposable Tip Hand Probe, a syringe drive unit, a valve, fill tubing, a Cable Management System, a country-specific power cord, a power supply, and a 25 µL and a 1.25 mL Hamilton Microlab 300 syringe. ClickSure™ tips sold separately.



Calibration	Factory tested and traceable to N.I.S.T. standards
Communication Type	Serial
Compatible with	25 µL and 1.25 mL Syringes
Fluid path	Borosilicate, PTFE, CTFE, PFA, FEP
Memory	2 GB
Mounting	On top of the Syringe Pump, Bench Top, or Wall Mount
Screen Resolution	640 (H) x 480 (V) pixels
Screen Size	15 cm (5.7" diagonal)
Tilt Range	5 positions from 90° to flat

Description	Electrical	Dimensions	Accuracy	Precision	Weight	Supplier No.	Cat. No.
Microlab® 300 Series Guided Pipetting System	100-240V 1.5A max 50-60 Hz	165.1 x 177.8 x 355.6 mm (6 1/2 x 7 x 14")	±7.00% at 0.5 µL, ±4.00% at 1 µL, ±1.50% at 5 µL, ±0.90% at 20 µL, ±0.85% at 25 µL, ±0.80% at 50 µL, ±0.80% at 100 µL, ±0.75% at 200 µL, ±0.75% at 250 µL, ±0.75% at 500 µL, ±0.50% at 750 µL, ±0.40% at 1000 µL	±8.00% at 0.5 µL, ±4.00% at 1 µL, ±1.00% at 5 µL, ±0.65% at 20 µL, ±0.60% at 25 µL, ±0.50% at 50 µL, ±0.40% at 100 µL, ±0.35% at 200 µL, ±0.35% at 250 µL, ±0.35% at 500 µL, ±0.20% at 750 µL, ±0.15% at 1000 µL	2.9 kg (6.5 lbs.)	67100-01	89261-020

Accessories		
Description	Supplier No.	Cat. No.
50 µL, Sterile ClickSure™ Tips	235536	89260-978
50 µL, Non-Sterile ClickSure™ Tips	235537	89260-980
1 mL, Sterile ClickSure™ Tips	235538	89260-982
1 mL, Non-Sterile ClickSure™ Tips	235539	89260-984
50 µL, Non-Sterile ClickSure™ Tips	235543	89260-986
50 µL, Sterile, Filtered ClickSure™ Tips, 960 tips racked	235544	89260-988
1 mL, Non-Sterile ClickSure™ Tips	235545	89260-990
1 mL, Sterile, Filtered ClickSure™ Tips	235546	89260-992
Disposable Tip Hand Probe Assembly	63960-01	89260-994
Cable Management System	65160-01	89260-996
Disposable Tip Hand Probe Holder	65161-01	89260-998
Cable Manager	65169-01	89261-002
Accessory Holder	65176-01	89261-004
Cable Management Thumb Screw - Qty 1	65800-01	89261-006
Valve Assembly	66008-01	89261-008
1.25 mL Bubble Free Prime Model 1705.5 Syringe	66088-15	89261-012

Continued on next page

Continued from previous page

Accessories		
Description	Supplier No.	Cat. No.
25 µL Gastight Model 1002.5 Syringe	66088-40	89261-014
Valve Thumb Screw 6-32 X 13-32 - Qty 1	66829-01	89261-016
Disposable Tip Hand Probe Tubing Kit (Includes 5 Ferrules, 5 Stainless Steel Rings, 5 ¼" – 28 Fittings, 5 Strain Reliefs, 12 Gauge Tubing and a Probe Tip)	67098-01	89261-018
Disposable Tip Hand O-Ring Kit (Includes 5 O-Rings)	67103-01	89261-022
SD Card	67255-01	89261-024
User Manual	67258-01	89261-026
12 Gauge Fill Tubing 48" (1219 mm) 4.57 mL Internal Volume	61614-01	89174-652
Microlab® 600 Universal (110–220 VAC) Power Supply	61092-01	89174-696
Microlab® 600 Switzerland Power Cord	355008	89174-698
Microlab® 600 Continental Europe, Russia, Schuko Power Cord	3892-01	89174-700
Microlab® 600 Australia, New Zealand, Argentina, China Power Cord	3892-02	89174-702
Microlab® 600 UK, Ireland, Malaysia, Middle East Power Cord	3892-03	89174-704
Microlab® 600 USA, Canada, Mexico, Central America, Brazil Power Cord	3892-05	89174-708

Powerpette® Plus Pipet Controller, Jencons

This lightweight, rechargeable pipet controller is ideal for a wide range of liquid handling applications. Controller features user-selectable aspirating and dispensing speeds and can be used in either "to deliver" or "blowout" mode. Compact, self-contained design with precision molding and concave finger triggers for comfortable handling. Pistol-style grip and an angled pipet holder nozzle allow use in small spaces such as laminar flow hoods or biological safety cabinets. Bench stand enables unit to be parked in upright position or with a pipet fitted. Suitable for large or small hands and for both left- and right-handed users. Works with pipets ranging from 1 to 100mL.

CE marked.

Ordering Information: Unit is fitted with a 0.45µm filter. Also supplied with manufacturer's one-year warranty, one 0.45µm and one 0.2µm hydrophobic filter, charger, and bench stand.

Color	Supplier No.	Cat. No.
Mauve	JENC266-059	14525-966
Gray		14526-202
Pink	JENC266-055	14526-230
Mint	JENC266-067	14526-232
Blue-Green	JENC266-063	89403-012



Jencons Powerpette Plus & Powerpette

BRAND accu-jet® pro Pipet Controllers, BrandTech

Lightweight controllers weigh only 190g (6.6oz.) and have slim handgrip for comfort during serial pipetting, even for small hands. Pressure-sensitive buttons provide smooth control over pipetting speed. An additional control adjusts maximum speed for both accurate pipetting of small volumes and speedy movement of large volumes. Dual-mode switch provides either powered dispensing, gravity dispensing for volumetric work, or density gradient underlaying. Pipet adapter and 0.2µm filter are autoclavable for sterile use.

Easily replaceable NiMH battery provides eight full hours of continuous pipetting on a single four-hour charge. An LED charge indicator alerts user when two hours are left.

Ordering Information: Controllers are supplied with two battery compartment covers (one with wings to allow instrument to be inverted for easy storage on benchtop or hood, and one without wings), wall support, rechargeable NiMH battery, 120V/60Hz charger, and two extra 0.2µm sterile filters.

Color	Supplier No.	Cat. No.
Dark Blue	26330	89009-342
Magenta	26331	89009-344
Green	26332	89009-346
Royal Blue	26333	89009-348



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VWR® Labmax™ Bottle-Top Dispensers

- Unique Closed Circuit Air Purging System
- Reagent Guard Valve Prevents Leakage
- Exclusive 360° Swivel Turn
- Quick, Accurate Volume Adjustment
- Unique Piston Design

Dispensers have a unique direct displacement piston system that is chemical-resistant and provides safe, smooth dispensing. Units are designed with a unique air purging system that prevents loss of reagents and eliminates dripping or splashing of media. An exclusive reagent guard valve prohibits accidental discharge and eliminates the need for capping the discharge tube when the dispenser is not in use. The volume adjustment knob allows quick and easy setting, and locks the volume into place. The discharge tube can be turned on a 360° swivel, allowing convenient dispensing and safe positioning over the reagent label.



Dispensers disassemble easily for cleaning. Automatic calibration eliminates readjustment. Fully autoclavable to 121°C (250°F).

Basic dispensers have a PTFE system for broad general use. Choose a PTFE-lined dispenser for applications using hydrofluoric acid or a glass-lined dispenser for use with organic solvents.

Ordering Information: Bottle-top dispensers with a 33mm neck are supplied with 24/25mm, 28mm, 38mm, and 45mm adapters. Dispensers with a 45mm neck are supplied with 28mm, 32/33mm, and 38mm adapters. Additional adapters also available separately. Adapter set **40000-072** consists of four adapters: 24/25mm (which fits only dispensers with a 33mm neck), and 28mm, 32/32mm, and 45mm adapters (which fit any dispenser). Reservoir bottle not included.

Accuracy	±0.7%
Reproducibility	±0.1%

Description	Volume	Fits	Increments	Neck Size	Cat. No.
Basic Dispenser	0.3–2.5 mL	—	0.05 mL	33 mm	40000-060
Basic Dispenser	1–5 mL	—	0.1 mL	33 mm	40000-062
Basic Dispenser	2–10 mL	—	0.2 mL	33 mm	40000-064
Basic Dispenser	5–25 mL	—	0.5 mL	45 mm	40000-066
Basic Dispenser	10–50 mL	—	1 mL	45 mm	40000-068
Basic Dispenser	20–100 mL	—	2 mL	45 mm	40000-070
Dispenser for Solvents	2–10 mL	—	0.2 mL	33 mm	82017-766
Dispenser for Solvents	5–25 mL	—	0.5 mL	45 mm	82017-768
Dispenser for Solvents	10–50 mL	—	1 mL	45 mm	82017-770
Dispenser for HF	2–10 mL	—	0.2 mL	33 mm	40000-065
Dispenser for HF	5–25 mL	—	0.5 mL	45 mm	40000-067
Adapter Set	—	—	—	—	40000-072
Additional Adapter	—	33 mm	—	24/25 mm	40000-084
Additional Adapter	—	33 or 45 mm	—	28 mm	40000-082
Additional Adapter	—	33 or 45 mm	—	32/33 mm	40000-074
Additional Adapter	—	33 or 45 mm	—	38 mm	40000-080
Additional Adapter	—	33 or 45 mm	—	40 mm	40000-078
Additional Adapter	—	33 or 45 mm	—	45 mm	40000-076

Accessories		
Description	Fits	Cat. No.
Replacement Discharge Tube	33 mm	39999-950
Replacement Discharge Tube	45 mm	39999-952
Extended Discharge Tube, 80 cm (31½")	33 mm	82017-772
Extended Discharge Tube, 80 cm (31½")	45 mm	82017-774
Drying Tube (for use with Calcium Chloride)	—	82017-776

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Zippette™ Bottle-Top Dispensers, Jencons

Suitable for use with most laboratory acids, alkalis, organic solvents and scintillation fluids, with the exception of hydrofluoric acid. Variable-volume bottle-top dispensers feature an anti-drip safety valve, a fine adjustment mechanism for greater reproducibility, an easy-to-adjust calibration mechanism, and a right-angled delivery spout for accurate dispensing. Dispensers have an accurate delivery within $\pm 0.3\%$ (on maximum delivery) and a precision within 0.1%. The precision valve mechanism ensures easy priming and minimum waste with no leakage back into the reservoir.

The PTFE piston is easily removable for cleaning and smooth action. The borosilicate glass barrel is protected with a transparent polypropylene sleeve and can be disassembled from the pedestal for thorough cleaning. The chemical-resistant liquid pathway allows dispensing of a wide range of liquids. Dispensers fit bottles with 30mm necks. Fully autoclavable at 121°C.

Manufactured to ISO9002 quality system standards.

Ordering Information: Supplied with 38, 40, and 45mm bottle neck adapters and a calibration certificate. Also supplied with manufacturer's three-year warranty. A bottle is not supplied; amber squat bottles with safety side filler necks are sold separately.

Volume	Increments	Supplier No.	Cat. No.
0.01–2.5 mL	0.05 mL	JENC263-000	53409-970
0.1–5 mL	0.1 mL	JENC263-001	53409-972
0.2–10 mL	0.2 mL	JENC263-002	53409-974
1–30 mL	1 mL	JENC263-003	53409-976
1–50 mL	1 mL	JENC263-004	53409-978

Accessories

Description	Supplier No.	Cat. No.
Amber Squat Bottle, 1.4 L	JENC262-086	14526-000
Amber Squat Bottle, 2.5 L	JENC262-103	14526-002
Safety Funnel, Offset Stem	JENC262-085	14526-004
Bottle Adapter, 33 mm Neck	JENC262-140	53409-990
Bottle Adapter, 38 mm Neck	JENC262-129	53409-992
Bottle Adapter, 40 mm Neck	JENC262-128	53409-994
Bottle Adapter, 45 mm Neck	JENC262-130	53409-996



Digitrate® Bottle-Top Burets, Jencons

Provide convenient bottle-top digital titration of any reagent. Constructed of borosilicate glass with fluoropolymer resin components.

Burets feature large LCD display, safety dispense nozzle protector, and "zero" reset button for multiple titrations. Simple user calibration procedure. Precision valve mechanism ensures easy priming with no leakage back into the reservoir. Chemically-resistant liquid pathway. Visual indication of last calibration. Head rotates 360° for use in any position.

May be easily dismantled for cleaning without the use of tools. Simple removal of electronics for autoclaving. Digitrate fits directly onto 30mm neck reservoirs. Accuracy: 0.2%. Reproducibility: 0.1%.

Each instrument is individually calibrated against National Institute of Standards and Technology Traceable equipment.

Amber, low-profile bottle (sold separately) has a side opening which eliminates the need to remove the Digitrate from the bottle during filling. A safety funnel (also sold separately) has an off-set stem for safer filling of the side neck on the bottle.

Ordering Information: Supplied with 33, 38, and 45mm bottle neck adapters and a calibration certificate. Also supplied with manufacturer's three-year warranty. A bottle is not supplied; amber squat bottles with safety side filler necks are sold separately.

Description	Capacity	Supplier No.	Cat. No.
Buret	30 mL	JENC182-000	14526-006
Buret	50 mL	JENC182-001	14526-008

Accessories

Description	Supplier No.	Cat. No.
Amber Squat Bottle, 1.4 L	JENC262-086	14526-000
Amber Squat Bottle, 2.5 L	JENC262-103	14526-002
Safety Funnel, Offset Stem	JENC262-085	14526-004
Bottle Adapter, 33 mm Neck	JENC262-140	53409-990
Bottle Adapter, 38 mm Neck	JENC262-129	53409-992
Bottle Adapter, 40 mm Neck	JENC262-128	53409-994
Bottle Adapter, 45 mm Neck	JENC262-130	53409-996



BDH® ARISTAR® Bottle-Top Dispensers

These bottle-top dispensers offer convenience, high chemical resistance, and protection against contamination. They are compatible with all high-purity concentrated acids, including hydrofluoric acid (HF), and are specifically designed to fit ARISTAR® ULTRA high-purity acid bottles. The dispensers also fit ARISTAR® PLUS ammonium hydroxide and hydrofluoric acid bottles. They dispense reproducible volumes from 0.5–5.0mL. Each dispenser is calibrated and mechanically tested to ensure they meet volume, precision, and accuracy requirements. All wetted parts, including check valves and seals, are constructed of fluoropolymer PFA or TFM resin.

Pre-cleaned dispensers are acid-cleaned pre- and post-assembly, and are assembled and packaged under ISO Class 5 (FED-STD-209E Class 100/M3.5) conditions.

Description	Volume	Supplier No.	Cat. No.
Pre-cleaned Bottle-Top Dispenser	0.5–5 mL	77200-VWN002	CA87003-530
Bottle-Top Dispenser	0.5–5 mL	77200-VWN003	CA87003-532
Base	0.5–5 mL	77200-VWN008	CA87003-534



BRAND Dispensette® III Bottle-Top Dispensers, BrandTech

These bottle-top dispensers are safe, reliable, and easy to use. Ideal for dispensing most acids, bases, saline solutions, and many solvents. Instruments are autoclavable at 121°C (250°F) for use with sterile reagents. The floating piston design provides smooth, one-handed operation, and eliminates polymer seal wear, for minimal service downtime. Dispensers can be directly fitted to standard GL45 bottles, or can be fitted to most common reagent bottles using the supplied adapters and telescoping filling tube, which eliminates poured transfer. The threaded safety cap removes easily, with or without gloves.

Choose from adjustable digital or analog models, in addition to fixed volume models. Easy Calibration™ digital models allow calibration adjustments in seconds without tools. SafetyPrime™ recirculation valve models reduce spurting during priming, help protect against inadvertent dispensing, and conserve valuable solvents. Valve block rotates 360°, allowing bottle label to always face the user.

Optional, flexible discharge tube can be moved easily over a series of vessels, simplifying serial dispensing of scintillation fluid and other liquids. The discharge tube has a safety handle that reduces the risk of chemical splash from tube recoil.

Optional remote dispensing system allows accurate dispensing from unpressurized drums and bulk refills. The dispenser may then be mounted as far as 10m (30') away from the container. Features a quick-release connector and an integral filter. NOWPak® adapter allows the use of economical and ecological NOWPak® bulk containers.

Caution: This dispenser should never be used with hydrofluoric (HF) acid, sodium azide, or chemicals incompatible with any of the materials of the flowpath (borosilicate glass, PFA, FEP, ETFE, PTFE, alumina ceramic, and platinum-iridium alloy). To dispense concentrated acids, fuming acids, tetrahydrofuran (THF), peroxides, or chlorinated and fluorinated solvents, use the Dispensette organic dispenser (see 72888-010 series). To dispense hydrofluoric acid, use the Dispensette HF dispenser (see 47746-470 series).

Ordering Information: Manufacturer's one-year warranty. Supplied with calibration certificate, operating manual, one discharge tube, one filling tube, valve mounting/calibration tool, and polypropylene adapters. Dispensers with maximum volume of 10mL or less include 24, 28, 33, and 38mm adapters; 2.5–25mL and 5–50mL dispensers include 28, 33, and 38mm adapters; 10–100mL dispensers include 33 and 38mm adapters.



Volume	Increments	Supplier No.	Cat. No.
Analog-Adjustable Dispensers			
0.05–0.5 mL	0.01 mL	4701100	47744-890
0.2–2 mL	0.05 mL	4701120	47744-892
0.5–5 mL	0.1 mL	4701130	47744-894
1–10 mL	0.2 mL	4701140	47744-896
2.5–25 mL	0.5 mL	4701150	47744-898
5–50 mL	1 mL	4701160	47744-900
10–100 mL	1 mL	4701170	47744-902
Fixed Volume Dispensers			
1 mL		4701210	47744-904
2 mL		4701220	47744-906
5 mL		4701230	47744-908
10 mL		4701240	47744-910
Accessories			
Description	Supplier No.	Cat. No.	
Drying Tube	707930	18900-230	
Adapter for Drums	704282	18900-514	
Adapter for NOWPak Containers	704284	18900-516	
Remote Dispensing System	704261	18901-104	
Flex Discharge Tubes for 25, 50, and 100 mL Models	707926	18901-120	
Flex Discharge Tubes for 2, 5, and 10 mL Models	707925	18901-122	

BRAND Titrette® Bottletop Burette, BrandTech

The BRAND Titrette® is the only bottletop burette that meets Class A accuracy specifications for glass burettes. Battery powered for portability, it handles common titrants, and is fully user-serviceable.

The Titrette® bottletop burette has an innovative new measuring system which matches the Class A accuracy of glass burettes and, if needed, can offer the precision of 3 decimal places below 20mL. This is an important feature for users who need to work within the Class A error limits of glass burettes according to DIN EN ISO 385 or within volumetric tolerance per ASTM E287.

The Titrette® can be quickly and easily disassembled in a matter of minutes – for cleaning, to replace the piston/cylinder, or to replace the batteries. Maintenance is easy and convenient, without the need to send it out for repair. To protect light-sensitive media, the installed clear cylinder inspection windows can be easily replaced with the supplied clip-on amber-colored windows. All components move within the housing, reducing headroom requirements. The compact design and the light weight ensure good stability. The titrating tube can be adjusted horizontally and vertically. The large handwheels provide smooth, precise control from rapid to dropwise titration.

The Titrette® is available with a RS232 interface for direct transfer of data to a PC. The Titrette® is suitable for most commonly used titrants up to 1mol/L in concentration, such as potassium permanganate, silver nitrate, EDTA, sodium hydroxide and alcoholic potassium hydroxide.

Ordering Information: The Titrette® bottletop burette is supplied in recyclable packaging with performance certificate, telescoping filling tube (170-330mm), recirculation tube, 2 AAA batteries, 3 polypropylene bottle adapters (45/33mm, 45/38mm and 33/NS 29-42), 2 colored light shield inspection windows, and operating manual. The Titrette® with PC interface contains the following additional items: RS232 connector cable and a CD with driver software, communication protocol, example application and a special operating manual.



Description	Supplier No.	Cat. No.
BRAND Titrette® Bottletop Burette, 25 mL BrandTech	4760151	89094-926
BRAND Titrette® Bottletop Burette, 50 mL BrandTech	4760161	89094-928
BRAND Titrette® Bottletop Burette, 25 mL with RS232 interface, BrandTech	4760251	89094-930
BRAND Titrette® Bottletop Burette, 50 mL with RS232 interface, BrandTech	4760261	89094-932

VWR® Vortex Mixers

- Now with Best in Class, Exclusive 5-Year Warranty

Designed for gentle shaking or vigorous vortexing of samples in a wide variety of applications. Use with flasks, beakers, tubes, and microwell plates. Constructed using a heavy base casting with corrosion-resistant enamel finish, units remain stable on work surfaces.

The analog vortex mixers have a variable speed control from 300–3200rpm, which allows low rpm startup for gentle shaking or high-speed mixing for vigorous vortexing of samples. Units can be operated in touch mode when depressing the cup head or in a continuous mode. Models feature a three-way power switch and a speed knob with variable 1 to 10 dial marks.

UL and C-UL listed. CE marked.

Ordering Information: Supplied with a cup head and 7.6cm (3") head with cover. Accessory tube holders and microplate holders are available, to adapt vortex mixer for use with a variety of sample volumes. 230V, 50/60Hz models are also available; contact your VWR sales representative for more information.



Description	Electrical	Dimensions	Weight	Cat. No.
Analog Vortex Mixer	120V, 50/60Hz, 150W	19.7L x 12.9W x 14.7H cm (7 ³ / ₄ x 5 ³ / ₃₂ x 5 ²⁵ / ₃₂ "	5 kg (11 lbs.)	58816-121

Accessories

Description	Cat. No.
Microtube Kit	12620-880
Flat Foam Insert	12620-884
Rubber Head only, 3"	58816-152
9–13 mm Tube Holder for 5 mL Culture Tubes	58816-138
20–25 mm Tube Holder for 50 mL Centrifuge Tubes	58816-142
14–19 mm Tube Holder for 15 mL Centrifuge Tubes	58816-140
Adapter Plate for Single Tube Holder	12621-252
Cup Head, 7.6 cm (3")	58816-156
Foam Insert Variety Pack	58816-134
Head and Cover, 7.6 cm (3")	12620-872
Head Cover, 7.6 cm (3")	58816-154
Insert Retainer	58816-132
Large Ampule Tube Holder, for 10–17 mm Vials	12620-888
Microplate Holder, Set of 2	12620-878
Microtube Adapter for Single Tube Holder, Holds Twenty-Four 0.5mL Tubes	12620-894
Microtube and Microplate Holder Kit	12620-874
Microtube Holder, Holds Forty-Eight 0.25–2.0 mL Microcentrifuge Tubes, Set of 2	12620-876
Single Tube Holder	12620-898
Small Ampule Tube Holder, for 15–17 mm Vials	12620-886
Stainless Steel Microtube Holder	12620-890
Tube Adapter for Single Tube Holder, Holds Eighteen 1.5–2.0mL Tubes	12620-896
Tube Holder Kit	58816-130
Vessel Harness	58816-136

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VWR® Digital Shaking Water Baths

- VWR Three-Year Limited Warranty

Ideal for a wide variety of routine laboratory applications, these baths are designed with a high-grade stainless steel tank in a robust outer case for linear shaking applications. Unit construction provides durability in demanding environments and makes baths easy to clean. Baths feature a gabled polycarbonate lid to divert condensation away from immersed vessels and to prevent contamination of samples. The heater mat and temperature sensor are mounted underneath the tank, optimizing temperature uniformity and workspace. Independent over-temperature cut-out provides system protection in case the bath accidentally operates with insufficient or no liquid. User-adjustable secondary control system protects samples in the event of primary system failure. The easily accessible control panel allows end-on positioning of the unit to maximize bench space. Digital controls consists of an easily visible three-digit display and membrane keypad. The digital control system provides reproducibility of set temperature and accurate repetition of sensitive procedures.



Baths come standard with one universal tray, which accepts various sizes of flat-bottom flasks and beakers. Optional stainless steel trays and racks are available to maximize use of available workspace. Test tube trays are required for placing flat-bottom flasks directly on the base of bath. Racks accommodate various sizes of microtubes and test tubes. Test tube trays are required for use of microtube and test tube racks.

Ordering Information: Includes three-year limited warranty.

Electrical	115V, 50/60Hz
Shaking Speed	40–400 strokes/min.
Stability	±0.1°C
Stroke Length	18 mm
Temperature range	5° above ambient to 99°C (210°F)

Capacity	Interior Dimensions	Cat. No.
11.8 L (3.1 gal.)	32.7L x 30W x 15D (12 ⁷ / ₈ x 11 ¹³ / ₁₆ x 5 ²⁹ / ₃₂ "	89032-224
18.4 L (4.9 gal.)	50.5L x 30W x 15D (19 ²⁹ / ₃₂ x 11 ¹³ / ₁₆ x 5 ²⁹ / ₃₂ "	89032-226

Accessories		Cat. No.
Description		
Test Tube Tray for 11.8 L Shaking Bath		89032-256
Test Tube Tray for 18.4 L Shaking Bath		89032-258
Universal Tray for 11.8 L Shaking Bath		89032-260
Universal Tray for 18.4 L Shaking Bath		89032-262
Test Tube Rack, Holds Forty-Eight 10 mm Tubes		89038-842
Test Tube Rack, Holds Forty-Four 13 mm Tubes		89038-844
Test Tube Rack, Holds Twenty-Four 16 mm Tubes		89038-846
Test Tube Rack, Holds Twenty-One 19 mm Tubes		89038-848
Test Tube Rack, Holds Twelve 25 mm Tubes		89038-850
Test Tube Rack, Holds Ten 30 mm Tubes		89038-852
Microtube Rack, Holds One Hundred Nineteen 0.5 mL Microtubes		89038-854
Microtube Rack, Holds Forty-Eight 1.5 mL Microtubes		89038-856

Shaking Water Baths, For Working Temperatures +20 to +99.9°C, JULABO

JULABO stainless steel shaking water baths are suitable for unsupervised continuous operation. The bright, LED Multi-Display shows up to six temperature values and is visible from across the lab. Advanced microprocessor technology with PID temperature control eliminates temperature overshoot and provides high temperature stability. Sensitive samples are well protected; as soon as the high and low temperature limits are reached an intermittent tone sounds. If the liquid in the bath reaches a minimum, the unit shuts down completely and a continuous single tone sounds.



Models include an electronic timer for setting run time from 1 min to 9 h 59 min and removable shaking tray prevents direct contact with the bath liquid. An RS232 interface allows on-line communication with a PC for software control.

The SW23 model includes a circulation pump which enables a temperature stability of 0. ±02 °C. Units supplied without shelves, racks or lid. Please order required accessories separately.

CE.

Ordering Information: Accessories not included.

Capacity (l)	8–26 L
Heating capacity (kW)	1

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Opening Size	19.7W x 11.8L x 7.1D"
Shaking	20–200 rpm
W x L x H	27.6 x 13.8 x 10.2"

Electrical	Model	Temperature Range	Temperature Stability	Weight	Supplier No.	Cat. No.
115V, 60Hz, 9A	SW22	+20 to +99.9°C	±0.2°C	42.7 lbs.	9550322	89421-934
115V, 60Hz, 10A	SW23	+20 to +99.9°C	±0.02°C	47.1 lbs.	9550323	89421-936

Accessories			
Description	For Use With	Supplier No.	Cat. No.
Base Tray for assembling a maximum of 4 Test Tube Racks		8970369	89422-114
Complete Carrier Tray with Test Tube Racks (to +80°C), for 360 microliter Tubes, 11/12 mm dia		8960442	89422-096
Base Tray for assembling Spring Clamps on a mix and match basis		8970620	89422-136
Complete Carrier Tray with Test Tube Racks (to +80°C), for 240 TT, 16/17 mm dia		8960440	89422-092
Complete Carrier Tray with Test Tube Racks (to +80°C), for 360 TT, 12/13 mm dia		8960441	89422-094
RS232 Interface Adapter Cable, 3 m		8980075	89422-640
Complete Carrier Tray with Test Tube Racks (to +80°C), for 84 TT, 30 mm dia		8960443	89422-098
Spring Clamp for 10 mL Flasks		8970601	89422-120
Spring Clamp for 200-250 mL Flasks		8970606	89422-128
Liquid Level/Cooling Set		8970415	89422-360
Spring Clamp for 50 mL Flasks		8970603	89422-124
Pre-assembled all purpose Spring Tray, for Erlenmeyer Flasks 25-1000 mL		8970630	89422-138
Standard Carrier Tray for Erlenmeyer Flasks, 11 ea, 250-300 mL		8970364	89422-108
Standard Carrier Tray for Erlenmeyer Flasks, 32 ea, 50 mL		8970361	89422-102
Set of Springs, 5 x 190 mm springs, 12 x 135 mm Springs (for 8970630)		8970631	89422-140
Standard Carrier Tray for Erlenmeyer Flasks, 8 ea, 500 mL		8970365	89422-110
Spring Clamp for 100 mL Flasks		8970604	89422-126
TT Rack, 21 Tubes 30 mm dia, to +80°C, Polypropylene		8970383	89422-086
Spring Clamp for 1000 mL Flasks		8970609	89422-134
TT Rack, 90 microliter Tubes 11/12 mm dia, to +80°C, Polypropylene		8970382	89422-084
Spring Clamp for 25 mL Flasks		8970602	89422-122
TT Rack, 90 Tubes 12/13 mm dia, to 100°C, SS		8970345	89422-074
Spring Clamp for 300 mL Flasks		8970607	89422-130
Spring Clamp for 500 mL Flasks		8970608	89422-132
Hollow balls, polypropylenes, 10000 pcs, 20 mm dia	All bath tanks	8970010	89422-550
Stainless Steel Lift Up Cover, to 100°C		8970268	89422-154
Standard Carrier Tray for Erlenmeyer Flasks, 15 ea, 200 mL		8970363	89422-106
Standard Carrier Tray for Erlenmeyer Flasks, 18 ea, 100 mL		8970362	89422-104
Standard Carrier Tray for Erlenmeyer Flasks, 45 ea, 25 mL		8970360	89422-100
Standard Carrier Tray for Erlenmeyer Flasks, 5 ea, 1000 mL		8970366	89422-112
Transparent Lift Up Makrolon Cover, to 80°C		8970288	89422-162
TT Rack, 21 Tubes 30 mm dia, to 100°C, SS		8970347	89422-078
TT Rack, 50 Tubes 16/17 mm dia, to 100°C, SS		8970344	89422-072
TT Rack, 60 Tubes 16/17 mm dia, to +80°C, Polypropylene		8970380	89422-080
TT Rack, 90 microliter Tubes 11/12 mm dia, to 100°C, SS		8970346	89422-076
TT Rack, 90 Tubes 12/1 mm dia, to +80°C, Polypropylene		8970381	89422-082
RS232 to USB interface Adapter cable, 2.5 m; Units with RS232; MA, ME, HE, SE, HL, SL, CF31, CF41	Units with RS232	8900110	89422-634

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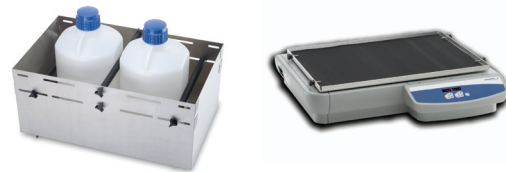
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VWR® Advanced Orbital Shaker, Model 5000

- Exclusive Accu-Drive™ Shaking System
- 22.7 kg (50 lb.) Capacity
- Now with Best in Class, Exclusive 5-Year Warranty



Digital orbital shakers are designed for a wide range of applications including solubility studies, extraction procedures, and cell cultures that require accurate and reproducible results. Shakers are equipped with the exclusive Accu-Drive™ Shaking System, which delivers exceptional speed control, accuracy, and durability. The system continuously monitors shaking speed and maintains setpoint even under changing loads. The variable speed microprocessor control provides consistent, uniform mixing action. Microprocessor will display last setpoint and restart if power is interrupted. The powerful triple eccentric drive and maintenance-free, brushless DC motor offer reliable service in continuous duty. Shakers feature touchpad controls with large, independent LEDs for speed and time, allowing operators to view all settings at once. The timer will display elapsed time or, when programmed to a defined limit, will shut off the unit. A speed calibration mode allows users to automatically recalibrate the speed display.

Safety features include a built-in load sensor that detects unbalanced conditions and automatically reduces rpm or stops the unit to protect samples. Overload protection delivers audible and visual signals when the system detects an obstruction or tray overload. A ramping feature slowly increases speed to the desired setpoint to avoid splashing, and the spill-resistant design channels fluids away from internal components. In timed mode an audible alarm will sound when the timer reaches zero. A mute function can be preset. Shakers can operate in cold rooms, incubators, and CO₂ environments from -10 to 60°C (14 to 140°F). An RS-232 serial port provides two-way communication for data logging and unit control.

Shakers can accommodate a variety of stainless steel platform options. Stainless steel tier braces allow stacking of same sized platforms and provide a 25.4cm (10") clearance between platforms. Universal platforms are suitable for mounting flask clamps and test tube racks. The adjustable platform attachment is equipped with four cushioned rollers to securely hold glassware. Culture platform with mat is ideal for slow speed applications that utilize low profile vessels such as petri dishes or culture flasks. Standard test tube racks are made of PVC coated steel, and pivoting test tube racks are made from polypropylene in a stainless steel holder.

TUV listed. Shakers with NIST traceable calibration certificate provided by an ISO/IEC 17025 accredited laboratory. Multiple data points within the speed range and time function are reported on the certificate with the associated uncertainties.

Ordering Information: Shaker is supplied with a nonskid rubber mat for 45.7x61cm (18x24") trays. Unit also includes a 2.3m (92") detachable 3-wire cord and plug. 230V, 50/60Hz models are also available; contact your VWR sales representative for more information.

Accuracy	±1% of set speed, <100 rpm ±1 rpm
Maximum Load	22.7 kg (50 lbs.)
Overall Dimensions	59.7L x 67.5W x 15.5H cm (23 ¹ / ₂ x 26 ¹⁹ / ₃₂ x 6 ¹ / ₈ ")
Shipping Weight	49.4 kg (109 lbs.)
Timer Range	1 second to 160 hours
Tray Dimensions	45.7L x 61W (18 x 24")

Description	Electrical	Orbit Size	Speed Range	Cat. No.
Shakers				
Model 5000 Advanced Shaker	120V	25.4 mm (1")	20–500 rpm	89032-104

Accessories				
Description	For Use With	Cat. No.		
Large Vessel Carrier with Four 45.7 cm (18") Bars, Stainless Steel, 76.4L x 45.9W x 35.3H cm (30.1 x 18.1 x 13.9")	Large Sample Containers, Carboys, Jugs, and Bottles	97003-606		
50 mL Centrifuge Tube Rack	For Seventeen 50 mL Conical Tubes	12985-052		
Stainless Steel Clamp	For 1 L Erlenmeyer Flasks	14215-224		
Stainless Steel Clamp	For 2 L Erlenmeyer Flasks	14215-226		
Stainless Steel Clamp	For 2.8 L Erlenmeyer Flasks	14215-228		
Stainless Steel Clamp	For 4 L Erlenmeyer Flasks	14215-230		
Stainless Steel Clamp	For 6 L Erlenmeyer Flasks	14215-232		
Stainless Steel Clamp	For 500 mL Media Bottles	14215-236		
Stainless Steel Clamp	For 1 L Media Bottles	14215-238		
Test Tube Rack	For Forty-Eight 10–14 mm Tubes	14215-240		
Test Tube Rack	For Thirty-Three 16–20 mm Tubes	14215-242		
Test Tube Rack	For Twenty-One 21–25 mm Tubes	14215-244		
Stainless Steel Clamp	For 10 mL Erlenmeyer Flasks	57018-775		
Stainless Steel Clamp	For 25 mL Erlenmeyer Flasks	57018-786		
Stainless Steel Clamp	For 50 mL Erlenmeyer Flasks	57018-797		
Stainless Steel Clamp	For 125 mL Erlenmeyer Flasks	57018-800		
Stainless Steel Clamp	For 250 mL Erlenmeyer Flasks	57018-811		
Stainless Steel Clamp	For 500 mL Erlenmeyer Flasks	57018-822		
PVC Clamp	For 125 mL Erlenmeyer Flasks	97003-576		
PVC Clamp	For 250 mL Erlenmeyer Flasks	97003-578		
PVC Clamp	For 500 mL Erlenmeyer Flasks	97003-580		
PVC Clamp	For 1 L Erlenmeyer Flasks	97003-582		

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Accessories		
Description	For Use With	Cat. No.
PVC Clamp	For 2 L Erlenmeyer Flasks	97003-584
Universal Platform, 45.7 x 61 cm (18 x 24")		97003-590
Universal Platform, 45.7 x 76.2 cm (18 x 30"); Two-Tier Ready		97003-594
Culture Platform with Mat, 45.7 x 61 cm (18 x 24")		97003-600
Adjustable Platform with Four Bars, 45.7 x 61 cm (18 x 24")		97003-604
Adjustment Bar, Replacement, 45.7 cm (18")		97003-612
Microplate Clamp		97003-634
Pivoting Test Tube Rack	For 13 mm Tubes	97003-636
Pivoting Test Tube Rack	For 16 mm Tubes	97003-638
Pivoting Test Tube Rack	For 20 mm Tubes	97003-640
Pivoting Test Tube Rack	For 25 mm Tubes	97003-642
Pivoting Test Tube Rack	For 30 mm Tubes	97003-644
Double Tier Braces, Set of 4		97003-646
Rubber Mat, 45.7 x 61 cm (18 x 24")		97019-052

Heidolph® Stands for RZR Series Stirrers, Brinkmann®

Designed for use with the RZR series of overhead stirrers, these stands provide sturdy support for stirrers during mixing procedures. The Universal stand S2 has a length of 700mm. The Universal stand S2 XXL is recommended for use with the RZR 2102 control Z, and has a length of 1000mm. The Telescope stand provides vertical displacement of 725–1025mm. All stands feature an H-shaped base measuring 425x420mm. Fastening clamps are not included.

Description	Rod Diameter	Weight	Supplier No.	Cat. No.
Universal Stand S2	25 mm	5.8 kg (12.8 lbs.)	036300520CA	CA11009-814

Heidolph® Stirrer Paddles and Accessories, Brinkmann®

Stirrer tools, Visco-Jet® mixing systems, clamps, computer interface equipment, and miscellaneous accessories for the RZR product line of electronic and mechanical overhead stirrers.

Description	Blade Size	Length	Supplier No.	Cat. No.
Straight Blade BR11	50 x 12 mm	400 mm	036300340CA	CA11009-778
Radial Flow Impeller TR21	50 mm	400 mm	036300390CA	CA11009-788
Ringed Propeller PR32, Stainless Steel	45 mm	400 mm	036300420CA	CA11009-794

Accessories		
Description	Supplier No.	Cat. No.
Universal Clamp, for 13–25 mm Rods	036300550CA	CA11009-820
Stirrer Guide	036300590CA	CA11009-828
Shaft Guard	036300610CA	CA11009-832
Remote Control for RZR 2051 Control and 2102 Control	036300620CA	CA11009-834
Analog Interface for RZR 2051 Control and 2102 Control	036300630CA	CA11009-836
Software Watch and Control	036300640CA	CA11009-838

VWR® COLLECTION

VWR® Standard Magnetic Stirrers

- Microprocessor Controlled
- Enhanced Electronic Features
- Chemical-Resistant Housing
- Now with Best in Class, Exclusive 5-Year Warranty

Standard stirrers are designed for general-purpose laboratory use. These analog units are microprocessor controlled and are equipped with easy-to-use, dial-adjustment controls. Enhanced electronics regulate stirring functions. A ramping feature gradually increases speed to prevent splashing, improve magnetic coupling, and provide excellent low end control. Speed is precisely controlled, with consistent stirring at all speeds powered by a dependable, continuous-duty motor. A low-profile design requires minimal bench space and permits use within a fume hood. The spill-resistant housing channels fluids away from internal components in the event of a spill.

Stirrers are available with ceramic or aluminum top plates. Ceramic top plates feature an easy-to-clean, chemical-resistant, reflective white surface. Aluminum top plates will not crack or chip. The unit's housing is constructed of a polymer that is chemical-resistant.

TUV listed. CE marked.

Ordering Information: Units are supplied with a 234cm (92") detachable, 3-wire cord and plug. 230V, 50/60Hz models are also available; contact your VWR sales representative for more information. A 3.8cm (1½") PTFE coated stir bar is also included. The optional support rod and clamp kit includes a 45.7cm (18") long stainless steel support rod, a thermometer/temperature probe extension clamp, a three-prong dual-adjust swivel clamp, and a hook connector.



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Electrical	120V, 50W, 0.4A
Operating conditions	5 to 40°C (41 to 104°F)
Speed Range	60–1600 rpm
Speed stability	±2%

Maximum Capacity	Overall Dimensions	Top Plate Dimensions	Maximum Capacity	Top Plate Material	Shipping Weight	Cat. No.
600 mL (20.3 oz.)	16.8W x 27.4L x 10.9H cm (6 ⁵ / ₈ x 10 ²⁵ / ₃₂ x 4 ⁵ / ₁₆ "	10.2 x 10.2 cm (4 x 4")	600 mL (20.3 oz.)	Ceramic	2.8 kg (6.2 lbs.)	97042-586
2.5 L (84.5 oz.)	25.1W x 37.6L x 10.9H cm (9 ²⁹ / ₃₂ x 14 ¹³ / ₁₆ x 4 ⁵ / ₁₆ "	17.8 x 17.8 cm (7 x 7")	2.5 L (84.5 oz.)	Ceramic	4.8 kg (10.5 lbs.)	97042-626
6 L (1.6 gal.)	33W x 45.5L x 10.9H cm (13 x 17 ¹⁵ / ₁₆ x 4 ⁵ / ₁₆ "	25.4 x 25.4 cm (10 x 10")	6 L (1.6 gal.)	Ceramic	7.2 kg (15.9 lbs.)	97042-666

Accessories		
Description	For Use With	Cat. No.
Support Rod and Clamp Kit	Temperature Probes, Thermometers, or other Glass Tubes	11301-110
Small Support Plate	Most 10.2 x 10.2cm (4 x 4") Hotplate/Stirrers	11301-124
Medium Support Plate	Most 17.8 x 17.8 cm (7 x 7") Hotplate/Stirrers	11301-126
Large Support Plate	Multiple Units	11301-128

VWR COLLECTION



VWR® Advanced Hot Plate Stirrers

- Excellent Temperature Uniformity
- Microprocessor Controlled
- Cool Touch, Chemical-Resistant Housing
- LED Display For Temperature
- Now with Best in Class, Exclusive 5-Year Warranty

Advanced hot plate stirrers are designed to deliver accurate and repeatable results in general-purpose laboratory applications. These microprocessor controlled units feature a front-facing control panel with an easy-to-read LED that displays set-point temperature. Enhanced electronics regulate the robust heater, which brings samples to the desired temperature quickly and efficiently. Speed is precisely controlled, and provides consistent stirring at all speeds. The low profile design utilizes minimal bench space and permits use within a fume hood. Unit housing is constructed of a heat- and chemical-resistant polymer that remains cool to the touch during operation. The spill-resistant design channels fluids away from internal components in the event of spills.

Hot plate stirrers are available with ceramic or aluminum top plate material. Reflective white ceramic tops are chemical-resistant and easy to clean. Durable aluminum tops will not crack or chip, and offer a more even heating surface. A ramping feature that gradually increases speed results in improved safety, enhanced coupling, and excellent low end speed control. A built-in memory recall provides users with the last set temperature, even after the unit has been turned off. For additional safety, a hot symbol warning light is illuminated when the hot plate is in use, and remains lit until the top plate is sufficiently cooled.

TUV listed. CE marked.

Ordering Information: Units are supplied with a 234cm (92") three-wire cord and plug. A 3.8cm (1½") PTFE coated stir bar is also included. The optional support rod and clamp kit includes a 45.7cm (18") long stainless steel support rod, a thermometer/temperature probe extension clamp, a three-prong dual-adjust swivel clamp, and a hook connector. 230V, 50/60Hz models are also available; contact your VWR sales representative for more information.



Operating conditions	5 to 40°C (41 to 104°F)
Speed range	60 to 1600 rpm
Speed stability	±2%
Temperature range	5° above ambient to 500°C (932°F) for ceramic top, 5° above ambient to 400°C (752°F) for aluminum top
Temperature stability	±3% for ceramic top, ±2% for aluminum top

Electrical	Maximum Capacity	Overall Dimensions	Top Plate Dimensions	Maximum Capacity	Top Plate Material	Shipping Weight	Cat. No.
120V, 400W, 3.3A	600 mL	16.8W x 27.4L x 10.9H cm (6 ⁵ / ₈ x 10 ²⁵ / ₃₂ x 4 ⁵ / ₁₆ "	10.2 x 10.2 cm (4 x 4")	600 mL	Ceramic	2.8 kg (6.2 lbs.)	97042-602
120V, 1000W, 8.3A	2500 mL	25.1W x 37.6L x 10.9H cm (9 ²⁹ / ₃₂ x 14 ¹³ / ₁₆ x 4 ⁵ / ₁₆ "	17.8 x 17.8 cm (7 x 7")	2500 mL	Ceramic	4.8 kg (10.5 lbs.)	97042-642
120V, 1550W, 12.9A	6000 mL	33W x 45.5L x 10.9H cm (13 x 17 ¹⁵ / ₁₆ x 4 ⁵ / ₁₆ "	25.4 x 25.4 cm (10 x 10")	6000 mL	Ceramic	7.2 kg (15.9 lbs.)	97042-682

Accessories		
Description	For Use With	Cat. No.
Support Rod and Clamp Kit	Temperature Probes, Thermometers, or other Glass Tubes	11301-110
Small Support Plate	Most 10.2 x 10.2cm (4 x 4") Hotplate/Stirrers	11301-124
Medium Support Plate	Most 17.8 x 17.8 cm (7 x 7") Hotplate/Stirrers	11301-126
Large Support Plate	Multiple Units	11301-128

VWR COLLECTION

VWR® Spinbar® Magnetic Stir Bars, Octagon

- Octagon shape has an interrupted profile for added turbulence compared with cylindrical stirring bars
- Pivot ring aids in reducing friction and chattering
- Alnico magnet encapsulated in FDA grade Teflon® PTFE is durable and inert. All stir bars have a pivot ring with the exception of the 12.7x3mm size (58948-094). Autoclavable.



Ordering Information:

6-Assortment includes six Octagon Spinbar® Magnetic Stir Bars, 2 each size: 5/16 x 1" (8 x 25.4mm), 5/16 x 1-1/2" (8 x 38.1mm); 5/16 x 2" (8mm x 50.8mm).

12-Assortment: Includes two of each 12.7x7.9mm (1/2x5/16"), 15.9x7.9mm (5/8x5/16"), 25.4x9.5mm (1x3/8"), 38.1x9.5mm (1-1/2x3/8"), 50.8x9.5mm (2x3/8"), and 63.5x9.5mm (2-1/2x3/8") sizes.

Dia. x L	Cat. No.
6-Assortment	58948-025
3 x 12.7 mm (1/8 x 1/2")	58948-091
7.9 x 12.7 mm (5/16 x 1/2")	58948-116
9.5 x 12.7 mm (3/8 x 1/2")	58947-120
12.7 x 38.1 mm (1/2 x 1 1/2")	58947-138

VWR COLLECTION

VWR® Talon® Support Plates

- Now with Best in Class, Exclusive 5-Year Warranty

Designed to hold hotplate/stirrers and other apparatus to Lab-Frames or ring stands. Plates include holder for mounting to vertical rod up to 1.9cm (3/4") and a self-adhesive non-skid mat. Aluminum construction offers strength and durability



Use the small support plate for most 10.2x10.2cm (4x4") hotplate/stirrers; the medium for 17.8x17.8cm (7x7") hotplate/stirrers; and the large for multiple units.

Description	For Use With	Dimensions	Cat. No.
Small Support Plate	Most 10.2 x 10.2cm (4 x 4") Hotplate/Stirrers	24.1 x 16.5 cm (9 1/2 x 6 1/2")	11301-124
Medium Support Plate	Most 17.8 x 17.8 cm (7 x 7") Hotplate/Stirrers	32.4 x 22.9 cm (12 3/4 x 9")	11301-126
Large Support Plate	Multiple Units	40 x 30.5 cm (15 3/4 x 12")	11301-128

VWR COLLECTION

VWR® Dyla-Dual™ Hot Plate Stirrer

- Large 16.5 cm (6 1/2") Diameter Cast Aluminum Top Plate
- Stirs from 100 to 1600 rpm
- Heats up to 400°C (752°F)
- 1500 mL Capacity
- Now with Best in Class, Exclusive 5-Year Warranty

The economical and durable Dyla-Dual™ hot plate stirrer is ideal for general heating and stirring. A large cast aluminum top plate provides an even heating surface. Electronic speed control and bimetallic thermostat deliver reliable and repeatable results. Powerful heater reaches maximum temperature in minutes. Large magnet provides strong magnetic coupling to the spin bar. Indicator lights illuminate when unit is on.

Built-in support rod holder with locking knob accepts optional support rod and clamp kit for mounting thermometers and temperature probes. Kit includes 45.7cm (18") support rod, thermometer extension clamp, three-prong medium swivel clamp, and hook connector. Optional support plate allows hot plate to be mounted to lab frames or ring stands.

UL and C-UL listed. CE marked.

Ordering Information: Units include a 1.8m (72") three-wire electrical cord with plug and PTFE resin-coated spinbar. 230V, 50/60Hz models are also available; contact your VWR sales representative for more information.



Maximum Temperature	400°C (752°F)
Overall Dimensions	22.2W x 20.3H x 12D cm (8 3/4 x 8 x 4 3/4")
Shipping Weight	2 kg (4.6 lbs)
Speed range	100–1200 rpm
Top Plate Dimensions	16.5 cm (6 1/2") diameter

Description	Electrical	Cat. No.
Hot Plate Stirrer	120V, 50/60Hz, 10A, 575W	12620-970

Accessories		
Description	For Use With	Cat. No.
Support Rod and Clamp Kit	Temperature Probes, Thermometers, or other Glass Tubes	11301-110
Small Support Plate	Most 10.2 x 10.2cm (4 x 4") Hotplate/Stirrers	11301-124
Medium Support Plate	Most 17.8 x 17.8 cm (7 x 7") Hotplate/Stirrers	11301-126
Large Support Plate	Multiple Units	11301-128



VWR® Advanced Hot Plates

- Excellent Temperature Uniformity
- Microprocessor Controlled
- Cool Touch, Chemical-Resistant Housing
- LED Display For Temperature
- Now with Best in Class, Exclusive 5-Year Warranty



Advanced hot plates are designed to deliver accurate and repeatable results in general-purpose laboratory applications. These microprocessor controlled units feature a front-facing control panel with an easy-to-read LED that displays set-point temperature. Enhanced electronics regulate the robust heater, which brings samples to the desired temperature quickly and efficiently. The low profile design utilizes minimal bench space and permits use within a fume hood. Unit housing is constructed of a heat- and chemical-resistant polymer that remains cool to the touch during operation. The spill-resistant design channels fluids away from internal components in the event of spills.

Hot plates are available with ceramic or aluminum top plate material. Reflective white ceramic tops are chemical-resistant and easy to clean. Durable aluminum tops will not crack or chip, and offer a more even heating surface. A built-in memory recall provides users with the last set temperature, even after the unit has been turned off. For additional safety, a hot symbol warning light is illuminated when the hot plate is in use, and remains lit until the top plate is sufficiently cooled.

TUV listed. CE marked.

Ordering Information: Units are supplied with a 234cm (92") three-wire cord and plug. The optional support rod and clamp kit includes a 45.7cm (18") long stainless steel support rod, a thermometer/temperature probe extension clamp, a three-prong dual-adjust swivel clamp, and hook connector. 230V, 50/60Hz models are also available; contact your VWR sales representative for more information.

Operating conditions	5 to 40°C (41 to 104°F)
Temperature range	5° above ambient to 500°C (932°F) for ceramic top, 5° above ambient to 400°C (752°F) for aluminum top
Temperature stability	±3% for ceramic top, ±2% for aluminum top

Electrical	Overall Dimensions	Top Plate Dimensions	Maximum Capacity	Top Plate Material	Shipping Weight	Cat. No.
120V, 350W, 2.9A	16.8W x 27.4L x 10.9H cm (6 ⁵ / ₈ x 10 ²⁵ / ₃₂ x 4 ⁵ / ₁₆ "	10.2 x 10.2 cm (4 x 4")	600 mL (20 oz.)	Ceramic	2.8 kg (6.2 lbs.)	97042-578
120V, 950W, 7.9A	25.1W x 37.6L x 10.9H cm (9 ²⁹ / ₃₂ x 14 ¹³ / ₁₆ x 4 ⁵ / ₁₆ "	17.8 x 17.8 cm (7 x 7")	2.5 L (84.5 oz.)	Ceramic	4.8 kg (10.5 lbs.)	97042-618
120V, 1500W, 12.5A	33W x 45.5L x 10.9H cm (13 x 17 ¹⁵ / ₁₆ x 4 ⁵ / ₁₆ "	25.4 x 25.4 cm (10 x 10")	6 L (1.6 gal.)	Ceramic	7.2 kg (15.9 lbs.)	97042-658

Accessories			
Description	For Use With		Cat. No.
Support Rod and Clamp Kit	Temperature Probes, Thermometers, or other Glass Tubes		11301-110
Small Support Plate	Most 10.2 x 10.2cm (4 x 4") Hotplate/Stirrers		11301-124
Medium Support Plate	Most 17.8 x 17.8 cm (7 x 7") Hotplate/Stirrers		11301-126
Large Support Plate	Multiple Units		11301-128



VWR® symphony™ Upright Laboratory Freezers

Upright laboratory freezer offers a variety of features that together provide superior temperature stability and product protection. A microprocessor temperature controller with digital display allows precise temperature adjustment, maintenance, and recovery. The manual defrost operating system eliminates the product-damaging temperature spikes common with auto defrost cycles on units **97025-008**, **97055-704**, and **97055-706**. Unit **97055-688** is equipped with automatic defrost. Five insulating inner doors help reduce cold air loss when main door is opened.

Units also feature an extensive temperature security package, including user-adjustable audible and visual alarms for high and low temperatures and power failures, battery backup, a temporary muting feature with intermittent chirp reminder, sample simulated digital temperature display, and sensor error warning. Remote alarm contacts with adjustable delay simplify connection to central alarm systems and phone dialers. Manufactured from cold-rolled, powder-coated steel. A solution bottle is installed to provide an accurate indication of sample temperatures. Supplied with a locking caster platform and keyed door lock.



Ordering Information: Interior dimensions are subject to change without notice. Freezers are supplied with a two year parts and labor warranty, with an additional three year warranty on compressor parts.

Electrical	Volume	Exterior Dimensions	Interior Dimensions	Compressor	Defrost	Temperature Range	Shipping Weight	Cat. No.
-20°C Units								
115V, 60Hz, 15A	566 L (20 cu. ft.)	70H x 32W x 29D"	56 1/2H x 27W x 17 1/2D"	1/3 hp	Manual	-20°C (-4°F)	161 kg (355 lbs.)	97025-008

Accessories			
Description			Cat. No.
Circular 7-Day Chart Recorder, 10.2 cm (4")			97025-046

VWR® General Purpose Upright Laboratory Freezers, Manual or Auto Defrost

- VWR® Two-Year Parts and Labor Warranty
- VWR® Five-Year Compressor Parts Warranty

General-purpose laboratory freezers are ideal for non-critical industrial, clinical, or laboratory requirements. Designed to provide dependable, energy-efficient performance, all units are manufactured with CFC-free high-density urethane foam cabinet and door insulation to maintain temperature stability. They feature a single right-hinged solid swing door, white textured steel cabinets and doors, and a magnetic door gasket to ensure a positive seal. Doors are equipped with a heavy-duty handle and keyed door lock for added security. Additional standard features include mechanical thermostat and leveling legs. Freezers are available with manual or auto defrost.

Ordering Information: Units are supplied with door bins. Contact your VWR sales representative for information on additional accessory door bins. Freezers are supplied with a two year parts and labor warranty, with an additional three year warranty on compressor parts.



Electrical	Volume	Exterior Dimensions	Defrost	No. of Shelves	Temperature Range	Shipping Weight	Cat. No.
115V, 60Hz	566 L (20 cu. ft.)	81.3W x 71.8D x 177.8H cm (32 x 28¼ x 70")	Auto	4 Fixed	-20°C (-4°F)	1550kg (335 lbs.)	97058-844
115V, 60Hz, 4A	396 L (14 cu. ft.)	81W x 74D x 154H cm (32 x 29 x 65")	Manual	3 Fixed	-20°C (-4°F)	95 kg (210 lbs.)	97055-720
115V, 60Hz, 15A	481 L (17 cu. ft.)	81.3W x 74D x 166.4H cm (32 x 29½ x 65½")	Manual	3 Fixed	-20°C (-4°F)	100 kg (220 lbs.)	97043-524
115V, 60Hz, 5A	566 L (20 cu. ft.)	81.3W x 73.6D x 177.8H cm (32 x 29 x 70")	Manual	4 Fixed	-20°C (-4°F)	152 kg (335 lbs.)	97043-346
115V, 60Hz, 5A	566 L (20 cu. ft.)	81W x 79D x 180H cm (32 x 31 x 71")	Manual	4 Fixed	-30°C (-22°F)	143 kg (315 lbs.)	97055-708
115V, 60Hz, 5A	850 L (30 cu. ft.)	88.9W x 81.3D x 193H cm (35 x 32 x 76")	Manual	3 Fixed, 2 Adjustable	-20°C (-4°F)	163.3 kg (360 lbs.)	97043-514
115V, 60Hz, 5A	850 L (30 cu. ft.)	89W x 81D x 183H cm (35 x 32 x 72")	Manual	3 Fixed, 2 Adjustable	-30°C (-22°F)	156 kg (343 lbs.)	97055-702
115V, 60 Hz, 9A	850 L (30 cu. ft.)	89W x 81D x 183H cm (35 x 32 x 72")	Auto	5 Fixed	-20°C (-4°F)	172 kg (378 lbs.)	97055-686

Accessories		Cat. No.
Description		
Caster Platform for 849.5 L (30 cu. ft.) Freezers		97043-518
Digital Temperature Display		97043-522

VWR® General Purpose Chromatography Refrigerator

VWR® Laboratory Chromatography Refrigerators are designed for general-purpose applications in laboratory environments, and to meet the rigorous demands life science research.

Refrigerators feature an adjustable temperature range of 1 to 12°C (34 to 54°F). Standard features include a 2.5cm (1") rear access port, two 5cm (2") side access ports, dual-pane glass door, one internal duplex outlet, set of four casters, bright easy-to-read digital display, and a full set of audio and visual alarms including door ajar, high/low temperatures, and alarm test.

UL/C-UL Listed. These units are not CSA certified.

Ordering Information: All VWR® General-Purpose Chromatography Refrigerators are supplied with a two-year parts and labor warranty.



Electrical	Volume	Color	Door Type	Cat. No.
With Chart Recorder				
120V/60Hz	765 L (27 cu. ft.)	White Painted Interior and Exterior	Single Door	89209-814
120V/60Hz	765 L (27 cu. ft.)	Stainless Steel Interior	Single Door	89209-818
120V/60Hz	1076 L (38 cu. ft.)	White Painted Interior and Exterior	Double Sliding Doors	89209-822
120V/60Hz	1274 L (45 cu. ft.)	White Painted Interior and Exterior	Double Sliding Doors	89209-826
120V/60Hz	1274 L (45 cu. ft.)	Stainless Steel Interior	Double Sliding Doors	89209-830
120V/60Hz	1388 L (49 cu. ft.)	White Painted Interior and Exterior	Double Swinging Doors	89209-834
120V/60Hz	1388 L (49 cu. ft.)	Stainless Steel Interior	Double Swinging Doors	89209-838
120V/60Hz	2039 L (72 cu. ft.)	White Painted Interior and Exterior	Triple Swinging Doors	89209-842
120V/60Hz	2039 L (72 cu. ft.)	Stainless Steel Interior	Triple Swinging Doors	89209-846



VWR® symphony™ General-Purpose Refrigerators

These economical units are intended for general-purpose applications that do not require precise temperature control and maintenance or temperature alarms. Refrigerators are single-door, upright units with adjustable mechanical thermostat preset to average 4°C (39°F). They feature an interior light, heavy-duty reinforced handles, and a magnetic door gasket for positive door closing. The refrigerant, foam insulation, and packaging are CFC-free.

UL and C-UL listed. These units are not CSA certified.

Ordering Information: Refrigerators are supplied with a two year parts and labor warranty, with an additional three year warranty on compressor parts.

Electrical	Volume	Exterior Dimensions	Defrost	Door Type	No. of Shelves	Shipping Weight	Cat. No.
115V, 5A	510 L (18 cu. ft.)	164H x 81.3W x 75D cm (64½ x 32 x 29½")	Auto	Solid	4 Fixed	111 kg (244 lbs.)	97018-480
115V, 9A	849.5 L (30 cu. ft.)	183H x 94W x 79D cm (72 x 37 x 31")	Auto	Glass	5 Adjustable	181 kg (398 lbs.)	97055-690
115V, 7A	849.5 L (30 cu. ft.)	183H x 89W x 81D cm (72 x 35 x 32")	Auto	Solid	5 Adjustable	172 kg (378 lbs.)	97055-692
115V, 4A	396 L (14 cu. ft.)	154H x 81W x 74D cm (60x 32 x 29")	Manual	Solid	1 Adjustable, 2 Fixed	97 kg (213 lbs.)	97055-722
115V, 5A	566 L (20 cu. ft.)	180H x 81W x 79D cm (71 x 32 x 31")	Manual	Solid	1 Adjustable, 3 Fixed	133 kg (293 lbs.)	97055-724



VWR® Critical Storage Undercounter Laboratory Refrigerator and Freezer, Manual Defrost

These undercounter refrigerator and freezer units are designed to meet the demanding standards of clinical, life science, pharmaceutical, biotechnology, and industrial applications. A built-in front-breather condenser allows units to be placed under bench or countertop and requires no additional clearance from the top, back, or sides of the cabinet. These compact units may also be left free-standing, placed side by side, or securely stacked to create a combination refrigerator/freezer.

Units offer exceptional temperature control and uniformity via a door-mounted microprocessor controller and interior forced air circulation. The easy-to-read controller features an upward angled LED display and keypad. Digital temperature input allows end user temperature flexibility. The controller lockout function prevents setpoint tampering. A preset alarm at ±3°C from temperature setpoint monitors critical variances. A door ajar alarm with alarm delay timer eliminates nuisance alarms. Remote alarm contacts allow for connection to a centralized alarm monitoring system. A 3cm (1³/₁₆") access port is standard.

A keyed locking door ensures safe and secure storage within each unit. Units feature a rounded door profile and handle. The refrigerator is equipped with adjustable wire shelves. The freezer is equipped with fixed evaporator shelves. Both units feature a right-hinged door swing.

Both models meet JCAHO standards for controlling medication access.

The accessory stacking kit allows units to be securely placed atop one another. Kits are supplied with the necessary plates and hardware to ensure a stable and reliable fit.



Electrical	115V, 60Hz, 0.9A
Exterior Dimensions	60W x 87.6H x 64.8D cm (23⁵/₈ x 34½ x 25½")
Refrigerant	R134A, HFC - Environmentally Friendly
Shipping Weight	50 kg (110 lbs.)

Description	Volume	No. of Shelves	Temperature Range	Cat. No.
Refrigerator	173 L (6 cu. ft.)	3	1 to 14 °C (34 to 57 °F)	89031-974
Manual Defrost Freezer	153 L (5.4 cu. ft.)	2	-25 to -15°C (-13 to 5°F)	89031-976

Maximize Productivity with VWR CATALYST™

VWR CATALYST offers complete technical services for equipment and instruments, including calibration, qualification, validation, certification, contract and warranty management, and repair. We can help you comply with all pertinent FDA, GLP/GMP, ISO, NCCLS, CAP, CLIA, and 21 CFR requirements. Contact us today at **1.888.793.2300** or visit ca.vwr.com/vwrcatalyst for more information.





VWR® Built-In Undercounter Laboratory Refrigerator

VWR® Built-In Undercounter Laboratory Refrigerators feature a front ventilation design for built-in applications between cabinetry.

Standard features include forced draft circulation, a microprocessor digital temperature controller for superior temperature performance, digital temperature display for convenient monitoring, remote alarm contacts, and an audible and visual alarm package for sample security.

UL listed.

Ordering Information: Refrigerators are supplied with a two year parts and labor warranty, with an additional three year warranty on compressor parts. Units **89425-602**, **89425-604**, and **89425-608** all feature a white exterior finish. Unit **89425-606** features a stainless steel exterior finish. Unit **89425-608** is 31¹⁵/₁₆" high, meeting ADA Guidelines. Accessory items must be purchased separately.



Description	Electrical	Volume	Exterior Dimensions	Defrost	Door Type	Temperature Range	Weight	Cat. No.
Built-In Undercounter Refrigerator	120V, 5A	130 L (4.6 cu. ft.)	81.1H x 60.3W x 64.8D cm (31 ¹⁵ / ₁₆ x 23 ³ / ₄ x 25 ¹ / ₂ ")	Cycle	Glass Door	0 to 10°C (32 to 50°F)	100 kg (220.5 lbs.)	89425-608
Built-In Undercounter Refrigerator	120V, 5A	127 L (4.5 cu. ft.)	84.8H x 60.3W x 61D cm (33 ³ / ₈ x 23 ³ / ₄ x 24 ¹ / ₂ ")	Cycle	Solid Door	0 to 10°C (32 to 50°F)	100 kg (220.5 lbs.)	89425-606
Built-In Undercounter Refrigerator	120V, 5A	130 L (4.6 cu. ft.)	84.8H x 60.3W x 64.8D cm (33 ³ / ₈ x 23 ³ / ₄ x 25 ¹ / ₂ ")	Cycle	Glass Door	0 to 10°C (32 to 50°F)	97 kg (214 lbs.)	89425-602
Built-In Undercounter Refrigerator	120V, 5A	130 L (4.6 cu. ft.)	84.8H x 60.3W x 61D cm (33 ³ / ₈ x 23 ³ / ₄ x 24 ¹ / ₂ ")	Cycle	Solid Door	0 to 10°C (32 to 50°F)	100 kg (220.5 lbs.)	89425-604

Accessories		Cat. No.
Description		
Replacement Shelf		89425-616
Stacking Kit		89425-618

Complex Problems Require Sophisticated Solutions.

Differentiated Services. Complete Solutions.

Our customers have been challenged with finding the answers that help improve lives. Our mission is to enable this by eliminating the process complexities and identifying product and service solutions that help labs and production facilities work better, faster, and smarter.

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Together, We Enable Science.



VWR® General-Purpose Laboratory Refrigerators and Freezers

- Convenient Compact Size
- Manual Defrost
- VWR Two-Year Limited Parts and Labor Warranty

These refrigerators and freezers are designed for general-purpose clinical, life science, pharmaceutical, biotech, and industrial use where space is limited. The unit can be placed under the bench or used freestanding. It is equipped with an adjustable mechanical thermostat control located conveniently inside the refrigerator chamber for reliable temperature control. The interior liner is fabricated from seamless high-impact polystyrene with rounded corners for ease in cleaning. R134A refrigerant. Manual defrost.

All models are built to UL Standards for safety and performance, and manufactured under ISO 9001, 9002, and 14001 certifications. UL and C-UL listed.

Ordering Information: Refrigerators are supplied with three adjustable wire shelves and flat inner door liner for maximum storage. Freezers have two fixed shelves.



Amps/Breaker	0.9/15
Clearance Requirements	2.5 cm (1") from top and sides, 10.2 cm (4") from back
Electrical	120V, 60Hz
Shipping Weight	34.5 kg (76 lbs.)

Description	Volume	Exterior Dimensions	Interior Dimensions	Temperature Range	Cat. No.
Compact Laboratory Refrigerator	142 L (5 cu. ft.)	85.7H x 54.3W x 57.8D cm (33 ³ / ₄ x 21 ³ / ₈ x 22 ³ / ₄ "	74.3H x 47.3W x 40D cm (29 ¹ / ₄ x 18 ⁵ / ₈ x 15 ³ / ₄ "	-2 to 10 °C	14236-524
Compact Laboratory Refrigerator with Hasp Lock	142 L (5 cu. ft.)	85.7H x 54.3W x 57.8D cm (33 ³ / ₄ x 21 ³ / ₈ x 22 ³ / ₄ "	74.3H x 47.3W x 40D cm (29 ¹ / ₄ x 18 ⁵ / ₈ x 15 ³ / ₄ "	1 to 10 °C	82028-524
Compact Laboratory Freezer	142 L (5 cu. Ft.)	85.4H x 54.3W x 65.7D cm (33 ³ / ₄ x 21 ³ / ₈ x 25 ³ / ₈ "	71.4H x 44.8W x 48.6D cm (28 ¹ / ₂ x 17 ³ / ₈ x 19 ¹ / ₂ "	-15 to -20 °C	97014-902
Compact Laboratory Freezer with Hasp Lock	142 L (5 cu. Ft.)	85.4H x 54.3W x 65.7D cm (33 ³ / ₄ x 21 ³ / ₈ x 25 ³ / ₈ "	71.4H x 44.8W x 48.6D cm (28 ¹ / ₂ x 17 ³ / ₈ x 19 ¹ / ₂ "	-15 to -20 °C	97014-900



VWR® Freestanding Undercounter Laboratory Refrigerator

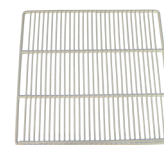
The VWR® Freestanding Undercounter Laboratory Refrigerator features a glass door, and is the ideal choice for laboratories and pharmacies requiring undercounter or countertop applications with adequate space for ventilation.

Standard features include forced draft circulation, a microprocessor digital temperature controller for superior temperature performance, digital temperature display for convenient monitoring, remote alarm contacts, and an audible and visual alarm package for sample security.

This unit requires a minimum of 10.2cm (4") of air flow space in the back, and 7.6cm (3") on both sides of the unit for proper heat removal. Failure to provide the proper space for air circulation will void any and all warranty claims.

UL listed.

Ordering Information: Refrigerators are supplied with a two year parts and labor warranty, with an additional three year warranty on compressor parts. Refrigerators feature a white exterior finish. Accessory items must be purchased separately.



Description	Electrical	Volume	Dimensions	Interior Dimensions	Defrost	Door Type	Temperature Range	Weight	Cat. No.
Freestanding Undercounter Refrigerator	120V, 2A	65 L (2.3 cu. ft.)	45W x 48.9D x 73.3H cm (17 ³ / ₄ x 19 ¹ / ₄ x 28 ⁷ / ₈ "	36.1W x 33.6D x 59H cm (14 1/4 x 13 1/4 x 23 1/4")	Cycle	Glass Door	0 to 10°C (32 to 50°F)	68 kg (150 lbs.)	89425-626
Freestanding Undercounter Refrigerator	120V, 2A	65 L (2.3 cu. ft.)	45W x 48.9D x 73.3H cm (17 ³ / ₄ x 19 ¹ / ₄ x 28 ⁷ / ₈ "	36.1W x 33.6D x 59H cm (14 1/4 x 13 1/4 x 23 1/4")	Cycle	Solid Door	0 to 10°C (32 to 50°F)	68 kg (150 lbs.)	89425-628
Freestanding Undercounter Refrigerator	120V, 2A	147.2 L (5.2 cu. ft.)	60.3W x 61D x 81.6H cm (23 ³ / ₄ x 24 x 32 ¹ / ₈ "	51.4W x 41.9D x 67.9H cm (20 1/4 x 16 1/2 x 26 3/4")	Cycle	Glass Door	0 to 10°C (32 to 50°F)	93 kg (205 lbs.)	89425-630

Accessories		Cat. No.
Description		
Replacement Refrigerator Shelf, 34.9 x 33 cm (13 ³ / ₄ x 13")		89425-632
Replacement Refrigerator Shelf, 49.5 x 41 cm (19 ¹ / ₂ x 16 ¹ / ₈ "		89425-634

Laboratory Undercounter Refrigerators, Freezers, and Combination Units, Nor-Lake® Scientific

Undercounter refrigerators, freezers, and combination units are designed to meet the demanding requirements of laboratory applications. All models feature white painted exterior front, door, top, and sides. The white interior liner and door panel on all models are durable and vacuum-formed with seamless rounded corners for easy cleaning. Cabinets and doors are foamed-in-place with CFC-free, high density polyurethane foam insulation. Additional standard features include a pull door handle, door lock (supplied with 2 keys), two front leveling legs, drain pan evaporation, base mount refrigeration system, air-cooled condensing unit, magnetic door gasket, recessed kickplate, and reversible door.



All models are compatible with laboratory case work dimensions, and may be built-in on three sides. Air intake and exhaust occurs through the base, top, and rear of the unit. The free standing refrigerator (97007-242) is equipped with automatic defrost and a thermostatic control unit with seven settings. It has three adjustable and removable wire shelves, one fixed glass shelf, three adjustable door shelves, and one removable bottom bin drawer. The free standing freezer (97007-244) is equipped with manual defrost and a thermostatic control unit with indicating control. It has two fixed position epoxy-coated wire shelves and three removable clear plastic drawer bins. The refrigerator/freezer combination unit (97007-240) features an independent internal freezer compartment with door. It is equipped with a manual defrost freezer and automatic defrost refrigerator, and has two fixed epoxy-coated wire shelves and three removable clear plastic drawer bins.

Ordering Information: All models are supplied with a twelve month warranty on parts. All units include cord and plug. All units are designed to be stackable with the use of an optional stacking kit. For additional information on the accessory stacking kit, contact your VWR representative.

Combination Unit Temperature Range	4°C (39°F) for refrigerator; -20°C (-4°F) for freezer
Electrical	115V, 60Hz
Environmentally Preferable Attribute	Product and/or packaging is safer to human and environmental health, Product and/or packaging contains recycled/renewable content
Freezer Temperature Range	-10 to -20°C (4 to -14°F)
Refrigerant	R134A
Refrigerator Temperature Range	2 to 8°C (36 to 46°F)

Description	Volume	Exterior Dimensions	Interior Dimensions	Shipping Weight	Supplier No.	Cat. No.
Refrigerator Unit	159 L (5.6 cu. ft.)	85H x 60W x 63D cm (33 ¹ / ₂ x 23 ⁵ / ₈ x 24 ⁷ / ₈ "	69.8H x 52.7W x 45D cm (27 ¹ / ₂ x 20 ³ / ₄ x 17 ³ / ₄ "	45 kg (100 lbs.)	LR061WWW/0	97007-242
Freezer Unit	99 L (3.5 cu. ft.)	85H x 60W x 63D cm (33 ¹ / ₂ x 23 ⁵ / ₈ x 24 ⁷ / ₈ "	61H x 44W x 42D cm (24 x 17 ¹ / ₂ x 16 ¹ / ₂ "	47 kg (104 lbs.)	LF041WWW/0M	97007-244

Humidified Incubators, Caron Products

Caron provides a full range of top of the line environmentally controlled incubators for your small to large capacity testing needs. Our Humidified Incubators are designed to provide elevated temperature and humidity controlled conditions for your research. These incubators offer more than typical competitive units – they are consistently reliable, offer best in class customer friendly features and utilize unique energy efficient components.

Our product offerings serve a wide range of applications, such as clinical and bacteriology studies, environmental testing, elevated temperature and humidity studies, industrial testing, coating and adhesive tests, electronics testing and more.

Our Humidified Incubators come in 10cu.ft. (283L), 25cu.ft. (708L) and 33cu.ft. (934L) sizes, and are all designed to take up a minimal footprint, allowing you to most efficiently take advantage of your laboratory floor or bench space. Multiple optional accessories are available, allowing you to cost-effectively customize the unit according to your requirements. Shelves are constructed of Type 304, perforated, electropolished stainless steel.

CE Marked for 89199-132, 89199-138, 89199-144.

Ordering Information: 283L units come complete with three (3) shelves, 708L units come complete with four (4) shelves and 934L units come complete with five (5) shelves.



Humidity Control	±3% RH
Humidity Range	Ambient to 98% RH
Humidity Sensor	Capacitive
Temperature Control	±0.1°C

Description	Electrical	Volume	Exterior Dimensions	Interior Dimensions	No. of Shelves	Temperature Range	Temperature Uniformity	Shipping Weight	Supplier No.	Cat. No.
Humidified Incubator, Model 6017-1	115V, 60 Hz, 12A	283 L (10 cu. ft.)	112.3W x 82.8D x 92.7H cm (44 ¹ / ₂ x 31 ² / ₃ x 37")	58.4W x 65.5D x 75.7H cm (23 x 25 ⁵ / ₈ x 29 ¹ / ₂ "	3 Standard; 15 Maximum	10° above ambient to 70°C (158°F)	±0.3°C	215 kg (475 lbs.)	6017-1	89199-128
Humidified Incubator, Model 6027-1	115V, 60 Hz, 12A	708 L (25 cu. ft.)	90.2W x 84.6D x 195.8H cm (35 ² / ₈ x 33 ² / ₈ x 77")	81.3W x 68.6D x 133.9H cm (32 x 27 x 52 ¹ / ₂ "	4 Standard; 25 Maximum	10° above ambient to 70°C (158°F)	±0.3°C	329 kg (725 lbs.)	6027-1	89199-134
Humidified Incubator, Model 6047-1	115V, 60 Hz, 12A	934 L (33 cu. ft.)	90.2W x 84.6D x 228.9H cm (35 ² / ₈ x 33 ² / ₈ x 90")	81.3W x 68.6D x 166.9H cm (32 x 27 x 65 ¹ / ₂ "	5 Standard; 31 Maximum	10° above ambient to 70°C (158°F)	±0.3°C	340 kg (750 lbs.)	6047-1	89199-140

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Accessories			
Description	Supplier No.	Cat. No.	
Side mounted carboy for Incubators with controlled humidity option; Water fill bottle with cap, 2.5 gallons (9.5 liters); Includes tubing and fittings (must purchase with optional model HUMD304)	BOTL301	97014-180	
Defrost System for Model 6021 and 6041 Refrigerated Incubators. Operates down to 0°C.	DEFR301	97014-186	
Built-in Temperature/Humidity Recorder, Dual pen, 6", 7 day, 24 hour, 115 V	RCDR302-1	97014-226	
Side-Mounted Temperature/Humidity Recorder, Dual Pen, 10", 7 Day, 24 Hour, 115 V	RCDR306-1	97014-242	
Remote Alarm Contacts. Provides NO and NC dry contacts for alarms.	ALRM301	97014-278	
Single Interior GFI Duplex Outlet, for 115V models. Fused at 2A. Humidity levels cannot exceed 90% RH with installation of this accessory.	OUTL301-1	97014-294	
Single Interior GFI Duplex Outlet; Fused at 2A, Humidity levels cannot exceed 90%RH with installation of this accessory, for 230V, 60Hz units	OUTL301-2	97014-296	

VWR COLLECTION

VWR® General Purpose Water Baths

Versatile general purpose water bath with digital display, programmable timer, programmable high limit, programmable calibration/temperature offset, 3 programmable preset temperatures and audible alarm standard.

120V units are ETL listed (North America only).

Ordering Information: Includes lid and removable bottom diffuser tray. 240V/50Hz models are also available; contact your VWR sales representative for more information.



Temperature Range	Ambient +5° to 99°C
Temperature Stability	±0.1°C

Electrical	Capacity	Overall Dimensions	Watts	Working Access	Cat. No.
120V, 60Hz, 1.5A	2 L	22.9L x 30.5W x 34.3H cm (9.9 x 12 x 13.5")	120W (heater wattage)	9.9L x 10.9W x 14.0D cm (3.9 x 4.3 x 5.5")	89501-460
120V, 60Hz, 3.5A	5 L	36.8L x 30.5W x 34.3H cm (14.5 x 12 x 13.5")	360W (heater wattage)	12.7L x 27.4W x 14.0D cm (5 x 10.8 x 5.5")	89501-464
120V, 60Hz, 9.0A	10 L	39.3L x 43.2W x 39.3H cm (15.5 x 17 x 15.5")	1000W (heater wattage)	26.9L x 29.5W x 14.0D cm (10.6 x 11.6 x 5.5")	89501-468
120V, 60Hz, 12.5A	20 L	57.2L x 43.2W x 39.3H cm (22.5 x 17 x 15.5")	1400W (heater wattage)	24.1L x 43.2W x 12.7D cm (9.5 x 17 x 5")	89501-472
120V, 60Hz, 12.5A	28 L	57.2L x 43.2W x 45.7H cm (22.5 x 17 x 18")	1400W (heater wattage)	24.1L x 43.2W x 17.8D cm (9.5 x 17 x 7")	89501-476

VWR COLLECTION

VWR® MX Immersion Circulators

Create your own circulating bath system using your own vessel or a VWR® open bath tank.

Large, 8.3cm (3 1/4") universal icon and display. User-adjustable high- and low-temperature limits and alarms, as well as integral pump and heater coil protection. Convenient slide control allows easy adjustments of flow rate. Single-point calibration.

ETL listed. CE marked. Complies with DIN 12876-1 Class I safety requirements for use with non-flammable liquids.

Ordering Information: 240V/50Hz models are also available; contact your VWR sales representative for more information.



Electrical	120V, 60Hz
Max. pressure flow (l/min)	12.8
Maximum Pressure	1.8 psi
Overall Dimensions	10.9L x 9.7W x 35.8H cm (4 ⁹ / ₃₂ x 3 ¹³ / ₁₆ x 14 ³ / ₃₂ ")
Temperature Stability	±0.07°C
Working temperature range (°C)	Ambient +10°C to 135°C (275°F)

Working Depth	Cat. No.
18.4 cm (7 1/4")	89202-886

Accessories			
Description	Details	For Use With	Cat. No.
13L Stainless Steel Open Tank	Liquid temperatures up to 150°C, One-piece deep drawn stainless steel, Rounded internal corners for easy cleaning, Working Access (LxWxD): 9 x 6.5 x 8"/22.9 x 16.5 x 20.3 cm, Overall Dimensions (LxWxH): 12.63 x 10.38 x 9.62"/32.1 x 28.9 x 24.4 cm	VWR MX and LX Immersion Circulators	89200-986
28L Stainless Steel Open Tank	Liquid temperatures up to 150°C, One-piece deep drawn stainless steel, Rounded internal corners for easy cleaning, Working Access (LxWxD): 16.5 x 8.5 x 8"/41.9 x 21.6 x 20.3 cm, Overall Dimensions (LxWxH): 20.87 x 12.87 x 9.62"/53 x 32.7 x 24.4 cm	VWR MX and LX Immersion Circulators	89200-988
8L Polycarbonate Open Tank	Liquid temperatures up to 85°C, Elevated tank bottom with secure handholds, Working Access (LxWxD): 11.2 x 6.13 x 8"/28.4 x 15.6 x 20.3 cm, Overall Dimensions (LxWxH): 11.9 x 6.87 x 9.13"/30.2 x 17.4 x 23.2 cm	VWR MX and LX Immersion Circulators	89200-990
11L Polycarbonate Open Tank	Liquid temperatures up to 85°C, Elevated tank bottom with secure handholds, Working Access (LxWxD): 15.3 x 6.13 x 8"/38.9 x 15.6 x 20.3 cm, Overall Dimensions (LxWxH): 16 x 6.87 x 9.13"/40.6 x 17.4 x 23.2 cm	VWR MX and LX Immersion Circulators	89200-992

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Accessories			
Description	Details	For Use With	Cat. No.
14L Polycarbonate Open Tank	Liquid temperatures up to 85°C, Elevated tank bottom with secure handholds, Working Access (LxWxD): 19.4 x 6.13 x 8"/49.3 x 15.6 x 20.3 cm, Overall Dimensions (LxWxH): 20.2 x 6.87 x 9.13"/51.3 x 17.4 x 23.2 cm	VWR MX and LX Immersion Circulators	89200-994
17L Polycarbonate Open Tank	Liquid temperatures up to 85°C, Elevated tank bottom with secure handholds, Includes drain port, Working Access (LxWxD): 12.3 x 12 x 8"/31.2 x 30.5 x 20.3 cm, Overall Dimensions (LxWxH): 13.8 x 12.75 x 9.13"/35.1 x 32.4 x 23.2 cm	VWR MX and LX Immersion Circulators	89200-996
23L Polycarbonate Open Tank	Liquid temperatures up to 85°C, Elevated tank bottom with secure handholds, Includes drain port, Working Access (LxWxD): 16.4 x 12 x 8"/41.7 x 30.5 x 20.3 cm, Overall Dimensions (LxWxH): 17.9 x 12.75 x 9.13"/45.5 x 32.4 x 23.2 cm	VWR MX and LX Immersion Circulators	89200-998
28L Polycarbonate Open Tank	Liquid temperatures up to 85°C, Elevated tank bottom with secure handholds, Includes drain port, Working Access (LxWxD): 20.6 x 12 x 8"/52.3 x 30.5 x 20.3 cm, Overall Dimensions (LxWxH): 21.1 x 12.75 x 9.13"/56.1 x 32.4 x 23.2 cm	VWR MX and LX Immersion Circulators	89201-000

VWR COLLECTION

VWR® Circulating Open Bath Systems

VWR® Circulating Open Bath Systems include MX Temperature Controller and choice of stainless steel or polycarbonate reservoir. The DuraTop™ chemical resistant bridge and bath cover are easy to clean and stay cooler at higher bath temperatures.

With Stainless Steel reservoirs, the controller bridge rests securely on the deep drawn reservoir, yet is easily removed for tank cleaning. Generous bath opening provides ready access to samples and included bath cover improves stability. 10, 20 and 28L models are equipped with lidded openings for optional cooling coils.

The transparent polycarbonate reservoir lets you keep samples in clear view. Elevated tank bottom provides secure handholds when lifting or relocating bath and is stable on uneven surfaces. Controller bridge removes easily for tank cleaning and rests securely on reservoir top edge when in use. The 17 and 28L models are equipped with drain ports and lidded openings for optional cooling coils.

CTL/CSA/CE. Complies with DIN 12876-1 Class I safety requirements for use with non-flammable liquids.

Ordering Information: Open Bath Systems include reservoir cover; bypass tubing; male inlet and outlet adapters for 3/8", 1/4" and 3/16" (.95, .63 and .47 cm) tubing. 1/4" NPT to M16 adapters also included on 50 Hz models.



Display Name	
Electrical	120VAC/60Hz
Maximum Pressure	2.3 psi (0.16 bar)
Maximum Pressure Flow Rate	3.6 gpm (13.5 l/min.)
Temperature Stability	±0.07°C

Description	Overall Dimensions	Temperature Range	Working Access	Cat. No.
6 L Stainless Steel Open Bath System with MX Controller	34L x 20.6W x 40.6H cm (13.4 x 8.1 x 16")	Ambient +10° to 135°C	10L x 11W x 15.2D cm (3.9 x 4.3 x 6")	89202-910
10 L Stainless Steel Open Bath System with MX Controller	35.3L x 34.2W x 40.6H cm (13.9 x 13.5 x 16")	Ambient +10° to 135°C	9.9L x 25.5W x 15.2D cm (3.9 x 10.1 x 6")	89202-914
20 L Stainless Steel Open Bath System with MX Controller	53.1L x 34.2W x 40.6H cm (20.9 x 13.5 x 16")	Ambient +10° to 135°C	26.4L x 22.8W x 15.2D cm (10.4 x 9 x 6")	89202-918
11 L Polycarbonate Open Bath System with MX Controller	42.7L x 20.8W x 44.1H cm (16.8 x 8.2 x 17.4")	Ambient +10° to 85°C	21L x 15.6W x 20.3D cm (8.3 x 6.1 x 8")	89202-890
17 L Polycarbonate Open Bath System with MX Controller	35.3L x 34.5W x 44.1H cm (13.9 x 13.6 x 17.4")	Ambient +10° to 85°C	10.5L x 30.5W x 20.3D cm (4.1 x 12 x 8")	89202-894
28 L Polycarbonate Open Bath System with MX Controller	56.2L x 34.5W x 44.1H cm (22.1 x 13.6 x 17.4")	Ambient +10° to 85°C	31.5L x 30.5W x 20.3D cm (12.4 x 12 x 8")	89202-898

Accessories			
Description	Details	For Use With	Cat. No.
Stainless Steel Test Tube Rack, 10-13 mm, Holds 15 Maximum	Modular Design allows use with multiple Tube Sizes and different Immersion Depths with a Single Rack; 6L Stainless Steel Open Bath: 1 Test Tube Rack	VWR® MX Stainless Steel Tank Open Bath Circulators	89201-044
Stainless Steel Test Tube Rack, 14-18 mm, holds 15 maximum	Modular Design allows use with multiple Tube Sizes and different Immersion Depths with a Single Rack; 6L Stainless Steel Open Bath: 1 Test Tube Rack	VWR® MX Stainless Steel Tank Open Bath Circulators	89201-046
Stainless Steel Test Tube Rack, 10-13 mm, holds 30 maximum	Modular Design allows use with multiple Tube Sizes and different Immersion Depths with a Single Rack; 10L Stainless Steel Open Bath: 1 Test Tube Rack, 20L Stainless Steel Open Bath: 2 Test Tube Racks	VWR® MX Stainless Steel Tank Open Bath Circulators	89201-048
Stainless Steel Test Tube Rack, 14-18 mm, holds 30	Modular Design allows use with multiple Tube Sizes and different Immersion Depths with a Single Rack; 10L Stainless Steel Open Bath: 1 Test Tube Rack, 20L Stainless Steel Open Bath: 2 Test Tube Racks	VWR® MX Stainless Steel Tank Open Bath Circulators	89201-050
PolyScience polyclean ALGAECIDE	8 oz bottle of polyclean ALGAECIDE; concentrated; treats approximately 200 gallons (757 liters)	VWR Refrigerated Circulating Baths, VWR Heated Circulating Baths and VWR Circulating Open Bath Systems	71002-500
PolyScience polyclean ALGAECIDE	case of 12 (8 oz bottles); polyclean ALGAECIDE; concentrated; treats approximately 200 gallons (757 liters)	VWR Refrigerated Circulating Baths, VWR Heated Circulating Baths and VWR Circulating Open Bath Systems	71002-502
Polycarbonate Test Tube Rack, 10-18 mm, holds 24 maximum	Modular Design allows use with multiple Tube Sizes and different Immersion Depths with a Single Rack; 11L Polycarbonate Open Bath: 2 Test Tube Racks	VWR® MX Polycarbonate Tank Open Bath Circulators	89201-052

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Accessories				
Description	Details	For Use With	Supplier No.	Cat. No.
Polycarbonate Test Tube Rack, 10-18 mm, holds 52 maximum	Modular Design allows use with multiple Tube Sizes and different Immersion Depths with a Single Rack; 17L Polycarbonate Open Bath: 1 Test Tube Rack, 28L Polycarbonate Open Bath: 3 Test Tube Racks	VWR® MX Polycarbonate Tank Open Bath Circulators		89201-054
1/4" ID Buna N Tubing	-40° to 120°C, order in continuous lengths of 3' (1 m)	VWR Refrigerated Circulating Baths, VWR Heated Circulating Baths and VWR Circulating Open Bath Systems		89201-056
Insulation for 1/4" Tubing	Order in continuous lengths of 3' (1 m)	VWR Refrigerated Circulating Baths, VWR Heated Circulating Baths and VWR Circulating Open Bath Systems		89201-062
Tube Clamps	For 1/4" and 3/8" ID tubing, stainless steel	VWR Refrigerated Circulating Baths, VWR Heated Circulating Baths and VWR Circulating Open Bath Systems		89201-076

VWR® COLLECTION



VWR® Heated Circulating Baths

VWR® Heated Circulating Baths offer precise temperature control, at temperature ranges from ambient +10° to 200°C (depending on the controller). Available in a wide range of sizes, with three controller options, these heated baths are ideal for many applications.

The large, LCD display on the MX temperature controller is easily viewed across the lab. The Advanced Digital temperature controller offers a touch-pad, while the Advanced Programmable Temperature Controller includes a full touch-screen display, and programmability (ten 100-step programs).

The Advanced Series Controllers offer Swivel 180™ technology, which allows you to rotate the controller independently from the bath. All heated circulating baths include LidDock™ lid stowing system and DuraTop™, the precision molded phenolic bath top, which remains cooler at high temperatures and resists laboratory chemicals.

ETL listed. CE marked. MX Controller complies with DIN 12876-1 Class I safety requirements for use with non-flammable liquids. Advanced Digital and Advanced Programmable comply with DIN 12876-1 Class III safety requirements for use with flammable liquids.

Ordering Information: Heated Circulators include reservoir cover; bypass tubing; male inlet and outlet adapters for 3/8", 1/4" and 3/16" (9.5, 6.3 and 4.7 mm) tubing. 1/4" NPT to M16 adapters also included on 50 Hz models.



Connections	USB-A & B, RS-232/RS-485, Ethernet and external temperature probe (except units with an MX Controller; no connectivity or probe)
Electrical	120VAC, 60Hz
Maximum Suction Flow Rate	3.9 gpm (14.7 l/min.); not applicable for units with an MX Controller

Description	Overall Dimensions	Maximum Pressure	Maximum Pressure Flow Rate	Temperature Range	Temperature Stability	Working Access	Cat. No.
7 L Heated Circulating Bath, Advanced Programmable Controller	49.9L x 22.1W x 40.9H cm (19.6 x 8.7 x 16.1")	4.3 psi (0.3 bar)	5.3 gpm (20.1 l/min.)	Ambient +10° to 200°C	±0.01°C	15.7L x 14.2W x 12.7D cm (6.18 x 5.59 x 5")	89202-930
15 L Heated Circulating Bath, Advanced Programmable Controller	56.9L x 36.8W x 42.2H cm (22.4 x 14.5 x 16.6")	4.3 psi (0.3 bar)	5.3 gpm (20.1 l/min.)	Ambient +10° to 200°C	±0.01°C	21.2L x 27.6W x 14D cm (8.35 x 10.88 x 5.5")	89202-938
20 L Heated Circulating Bath, Advanced Programmable Controller	61L x 41.9W x 42.2H cm (24 x 16.5 x 16.6")	4.3 psi (0.3 bar)	5.3 gpm (20.1 l/min.)	Ambient +10° to 200°C	±0.01°C	25L x 31.6W x 14D cm (9.85 x 12.45 x 5.5")	89202-946
28 L Heated Circulating Bath, Advanced Programmable Controller	67.2L x 45.7W x 42.2H cm (26.5 x 18 x 16.6")	4.3 psi (0.3 bar)	5.3 gpm (20.1 l/min.)	Ambient +10° to 200°C	±0.01°C	31.4L x 35.9W x 14D cm (12.35 x 14.13 x 5.5")	89202-954

Accessories				
Description	Details	For Use With	Supplier No.	Cat. No.
External Pt100 Probe	External Pt100 Probe, 6" with 10' length cable	VWR Refrigerated Circulating Baths and VWR Heated Circulating Baths with Advanced Digital and Advanced Programmable Controllers		89201-004
External Pt100 Probe	External Pt100 Probe, 6" with 25' length cable	VWR Refrigerated Circulating Baths and VWR Heated Circulating Baths with Advanced Digital and Advanced Programmable Controllers		89201-006
External Pt100 Probe	External Pt100 Probe, 6" with 50' length cable	VWR Refrigerated Circulating Baths and VWR Heated Circulating Baths with Advanced Digital and Advanced Programmable Controllers		89201-008
RS232 Cable	Cable Length: 9'	VWR Refrigerated Circulating Baths and VWR Heated Circulating Baths with Advanced Digital and Advanced Programmable Controllers		89201-010
Ethernet Cable	Cable Length: 9'	VWR Refrigerated Circulating Baths and VWR Heated Circulating Baths with Advanced Digital and Advanced Programmable Controllers		89201-012
USB-A to Mini-B Cable	Cable Length: 9'	VWR Refrigerated Circulating Baths and VWR Heated Circulating Baths with Advanced Digital and Advanced Programmable Controllers		89201-016

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Accessories				
Description	Details	For Use With	Supplier No.	Cat. No.
1/4" ID Buna N Tubing	-40° to 120°C, order in continuous lengths of 3' (1 m)	VWR Refrigerated Circulating Baths, VWR Heated Circulating Baths and VWR Circulating Open Bath Systems		89201-056
Insulation for 1/4" Tubing	Order in continuous lengths of 3' (1 m)	VWR Refrigerated Circulating Baths, VWR Heated Circulating Baths and VWR Circulating Open Bath Systems		89201-062
Tube Clamps	For 1/4" and 3/8" ID tubing, stainless steel	VWR Refrigerated Circulating Baths, VWR Heated Circulating Baths and VWR Circulating Open Bath Systems		89201-076
PolyScience polyclean ALGAECIDE	8 oz bottle of polyclean ALGAECIDE; concentrated; treats approximately 200 gallons (757 liters)	VWR Refrigerated Circulating Baths, VWR Heated Circulating Baths and VWR Circulating Open Bath Systems	004-300040	71002-500
PolyScience polyclean ALGAECIDE	case of 12 (8 oz bottles); polyclean ALGAECIDE; concentrated; treats approximately 200 gallons (757 liters)	VWR Refrigerated Circulating Baths, VWR Heated Circulating Baths and VWR Circulating Open Bath Systems	004-300041	71002-502
External Pt100 Probe	External Pt100 Probe, 6" with 10' length cable	VWR Refrigerated Circulating Baths and VWR Heated Circulating Baths with Advanced Digital and Advanced Programmable Controllers		89201-004
External Pt100 Probe	External Pt100 Probe, 6" with 25' length cable	VWR Refrigerated Circulating Baths and VWR Heated Circulating Baths with Advanced Digital and Advanced Programmable Controllers		89201-006
External Pt100 Probe	External Pt100 Probe, 6" with 50' length cable	VWR Refrigerated Circulating Baths and VWR Heated Circulating Baths with Advanced Digital and Advanced Programmable Controllers		89201-008

VWR COLLECTION

VWR® Refrigerated Circulating Baths

VWR® Refrigerated Circulating Baths offer precise temperature control, at temperature ranges from -40° to 200°C (depending on the controller). Available in a wide range of sizes, with three controller options, these refrigerated circulating baths are ideal for many applications.

The large, LCD display on the MX temperature controller is easily viewed across the lab. The Advanced Digital temperature controller offers a touch-pad, while the Advanced Programmable Temperature Controller includes a full touch-screen display, and programmability (ten 100-step programs).

The Advanced Series Controllers offer Swivel 180™ technology, which allows you to rotate the controller independently from the bath. All heated circulating baths include LidDock™ lid stowing system and DuraTop™, the precision molded phenolic bath top, which remains cooler at high temperatures and resists laboratory chemicals.

ETL listed. CE marked. MX Controller complies with DIN 12876-1 Class I safety requirements for use with non-flammable liquids. Advanced Digital and Advanced Programmable comply with DIN 12876-1 Class III safety requirements for use with flammable liquids.

Ordering Information: Refrigerated Circulators include reservoir cover; bypass tubing; male inlet and outlet adapters for 3/8", 1/4" and 3/16" (.95, .63 and .47cm) tubing. 1/4" NPT to M16 adapters also included on 50 Hz models.



Display Name	60Hz Models
Connectors	USB-A and B, RS-232/RS-485, Ethernet and external temperature probe (except units with MX Controller; no connectivity or probe)
Maximum Suction Flow Rate	3.9 gpm (14.7 l/min.), except units with MX Controller

Description	Electrical	Cooling Capacity	Overall Dimensions	Maximum Pressure	Maximum Flow Rate	Temperature Range	Temperature Stability	Working Access	Cat. No.
7L Space-Saving Refrigerated Circulator with Advanced Programmable Controller, -20°C	120VAC, 60Hz	200W (at 20°C)	54.1L x 22.1W x 61.7H cm (21.3 x 8.7 x 24.3")	4.3 psi (0.3 bar)	5.3 gpm (20.1 l/min.)	-20° to 200°C	±0.01°C	15.7L x 14.2W x 12.7D cm (6.18 x 5.59 x 5")	89202-974
7L Space-Saving Refrigerated Circulator with Advanced Programmable Controller, -40°C	120VAC, 60Hz	505W (at 20°C)	54.1L x 22.1W x 61.7H cm (21.3 x 8.7 x 24.3")	4.3 psi (0.3 bar)	5.3 gpm (20.1 l/min.)	-40° to 200°C	±0.01°C	15.7L x 14.2W x 12.7D cm (6.18 x 5.59 x 5")	89202-982
15L Refrigerated Circulator with Advanced Programmable Controller, -30°C	120VAC, 60Hz	915W (at 20°C)	56.9L x 36.8W x 68.3H cm (22.4 x 14.5 x 26.9")	4.3 psi (0.3 bar)	5.3 gpm (20.1 l/min.)	-30° to 200°C	±0.01°C	21.2L x 27.6W x 14D cm (8.35 x 10.88 x 5.5")	89202-990
15L Refrigerated Circulator with Advanced Programmable Controller, -40°C	120VAC, 60Hz	1000W (at 20°C)	56.9L x 36.8W x 68.3H cm (22.4 x 14.5 x 26.9")	4.3 psi (0.3 bar)	5.3 gpm (20.1 l/min.)	-40° to 200°C	±0.01°C	21.2L x 27.6W x 14D cm (8.35 x 10.88 x 5.5")	89202-998
20L Refrigerated Circulator with Advanced Programmable Controller, -30°C	120VAC, 60Hz	915W (at 20°C)	61L x 41.9W x 68.3H cm (24 x 16.6 x 26.9")	4.3 psi (0.3 bar)	5.3 gpm (20.1 l/min.)	-30° to 200°C	±0.01°C	25L x 31.6W x 14D cm (9.85 x 12.45 x 5.5")	89203-006
28L Refrigerated Circulator with Advanced Programmable Controller, -30°C	120VAC, 60Hz	915W (at 20°C)	67.2L x 45.7W x 68.3H cm (26.5 x 18 x 26.9")	4.3 psi (0.3 bar)	5.3 gpm (20.1 l/min.)	-30° to 200°C	±0.01°C	31.4L x 35.9W x 14D cm (12.35 x 14.13 x 5.5")	89203-014
45L Refrigerated Circulator with Advanced Programmable Controller, -25°C	208-240VAC, 50-60 Hz	1400W (at 20°C)	90.9L x 56.8W x 107H cm (35.8 x 22.4 x 42.1")	4.3 psi (0.3 bar)	5.3 gpm (20.1 l/min.)	-25° to 135°C	±0.01°C	54.9L x 39.8W x 14D cm (21.6 x 15.68 x 5.5")	89203-022

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Accessories				
Description	Details	For Use With	Supplier No.	Cat. No.
PolyScience polyclean ALGAECIDE	8 oz bottle of polyclean ALGAECIDE; concentrated; treats approximately 200 gallons (757 liters)	VWR Refrigerated Circulating Baths, VWR Heated Circulating Baths and VWR Circulating Open Bath Systems	004-300040	71002-500
PolyScience polyclean ALGAECIDE	case of 12 (8 oz bottles); polyclean ALGAECIDE; concentrated; treats approximately 200 gallons (757 liters)	VWR Refrigerated Circulating Baths, VWR Heated Circulating Baths and VWR Circulating Open Bath Systems	004-300041	71002-502
PolyScience polycool EG -25	Ethylene glycol. One gallon / 3.8 L. -25° to 100°C (-13° to 212°F) when mixed 50/50 with distilled water.	VWR Refrigerated Circulating Baths	060340	71002-504
PolyScience polycool PG -20	Propylene glycol. One gallon / 3.8 L. -20° to 100°C (-4° to 212°F) when mixed 50/50 with distilled water.	VWR Refrigerated Circulating Baths	060320	71002-506
External Pt100 Probe	External Pt100 Probe, 6" with 10' length cable	VWR Refrigerated Circulating Baths and VWR Heated Circulating Baths with Advanced Digital and Advanced Programmable Controllers		89201-004
External Pt100 Probe	External Pt100 Probe, 6" with 25' length cable	VWR Refrigerated Circulating Baths and VWR Heated Circulating Baths with Advanced Digital and Advanced Programmable Controllers		89201-006
External Pt100 Probe	External Pt100 Probe, 6" with 50' length cable	VWR Refrigerated Circulating Baths and VWR Heated Circulating Baths with Advanced Digital and Advanced Programmable Controllers		89201-008
RS232 Cable	Cable Length: 9'	VWR Refrigerated Circulating Baths and VWR Heated Circulating Baths with Advanced Digital and Advanced Programmable Controllers		89201-010
Ethernet Cable	Cable Length: 9'	VWR Refrigerated Circulating Baths and VWR Heated Circulating Baths with Advanced Digital and Advanced Programmable Controllers		89201-012
1/4" ID Buna N Tubing	-40° to 120°C, order in continuous lengths of 3' (1 m)	VWR Refrigerated Circulating Baths, VWR Heated Circulating Baths and VWR Circulating Open Bath Systems		89201-056
Insulation for 1/4" Tubing	Order in continuous lengths of 3' (1 m)	VWR Refrigerated Circulating Baths, VWR Heated Circulating Baths and VWR Circulating Open Bath Systems		89201-062
Tube Clamps	For 1/4" and 3/8" ID tubing, stainless steel	VWR Refrigerated Circulating Baths, VWR Heated Circulating Baths and VWR Circulating Open Bath Systems		89201-076



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VWR® Refrigerated Circulating Baths, 240V

VWR® Refrigerated Circulating Baths offer precise temperature control, at temperature ranges from -40° to 200°C (depending on the controller). Available in a wide range of sizes, with three controller options, these refrigerated circulating baths are ideal for many applications.

The large, LCD display on the MX temperature controller is easily viewed across the lab. The Advanced Digital temperature controller offers a touch-pad, while the Advanced Programmable Temperature Controller includes a full touch-screen display, and programmability (ten 100-step programs).

The Advanced Series Controllers offer Swivel 180™ technology, which allows you to rotate the controller independently from the bath. All heated circulating baths include LidDock™ lid stowing system and DuraTop™, the precision molded phenolic bath top, which remains cooler at high temperatures and resists laboratory chemicals.

ETL listed. CE marked. MX Controller complies with DIN 12876-1 Class I safety requirements for use with non-flammable liquids. Advanced Digital and Advanced Programmable comply with DIN 12876-1 Class III safety requirements for use with flammable liquids.

Ordering Information: Refrigerated Circulators include reservoir cover; bypass tubing; male inlet and outlet adapters for 3/8", 1/4" and 3/16" (.95, .63 and .47cm) tubing. 1/4" NPT to M16 adapters also included on 50 Hz models.



Display Name	50Hz Models
Connectors	USB-A and B, RS-232/RS-485, Ethernet and external temperature probe (except units with MX Controller; no connectivity or probe)
Maximum Suction Flow Rate	3.2 gpm (12.2 l/min.), except units with MX Controller

Description	Electrical	Cooling Capacity	Overall Dimensions	Maximum Pressure	Maximum Pressure Flow Rate	Temperature Range	Temperature Stability	Working Access	Cat. No.
7L Space-Saving Refrigerated Circulator with Advanced Programmable Controller, -20°C	240VAC, 50Hz	200W (at 20°C)	54.1L x 22.1W x 61.7H cm (21.3 x 8.7 x 24.3")	3.6 psi (0.25 bar)	4.4 gpm (16.7 l/min.)	-20° to 200°C	±0.01°C	15.7L x 14.2W x 12.7D cm (6.18 x 5.59 x 5")	89202-976

Accessories			
Description	Details	For Use With	Cat. No.
Viton Tubing, 3/8" ID	3/8" (10 mm) ID. -32° to 200°C, order in continuous lengths of 3' (1 m)	VWR Recirculating Chillers and VWR Benchtop Chillers	89200-810
Fittings for Circulators	Fitting, 1/2" male NPT x 5/8" (16 mm) hose barb, nylon, straight	Integrated cooling coils (Refrigerated/Heated Circulating Water Baths and Heat Only Circulating Water Baths)	89200-820
Fittings for Circulators	Fitting, 1/2" male NPT x 1/2" (13 mm) hose barb, nylon straight	Integrated cooling coils (Refrigerated/Heated Circulating Water Baths and Heat Only Circulating Water Baths)	89200-822
External Pt100 Probe	External Pt100 Probe, 6" with 50' length cable	VWR Refrigerated Circulating Baths and VWR Heated Circulating Baths with Advanced Digital and Advanced Programmable Controllers	89201-008
RS232 Cable	Cable Length: 9'	VWR Refrigerated Circulating Baths and VWR Heated Circulating Baths with Advanced Digital and Advanced Programmable Controllers	89201-010
Ethernet Cable	Cable Length: 9'	VWR Refrigerated Circulating Baths and VWR Heated Circulating Baths with Advanced Digital and Advanced Programmable Controllers	89201-012
USB-A to Mini-B Cable	Cable Length: 9'	VWR Refrigerated Circulating Baths and VWR Heated Circulating Baths with Advanced Digital and Advanced Programmable Controllers	89201-016
1/4" ID Buna N Tubing	-40° to 120°C, order in continuous lengths of 3' (1 m)	VWR Refrigerated Circulating Baths, VWR Heated Circulating Baths and VWR Circulating Open Bath Systems	89201-056
Insulation for 1/4" Tubing	Order in continuous lengths of 3' (1 m)	VWR Refrigerated Circulating Baths, VWR Heated Circulating Baths and VWR Circulating Open Bath Systems	89201-062
Tube Clamps	For 1/4" and 3/8" ID tubing, stainless steel	VWR Refrigerated Circulating Baths, VWR Heated Circulating Baths and VWR Circulating Open Bath Systems	89201-076
PolyScience polyclean ALGAECIDE	8 oz bottle of polyclean ALGAECIDE; concentrated; treats approximately 200 gallons (757 liters)	VWR Refrigerated Circulating Baths, VWR Heated Circulating Baths and VWR Circulating Open Bath Systems	71002-500
PolyScience polyclean ALGAECIDE	case of 12 (8 oz bottles); polyclean ALGAECIDE; concentrated; treats approximately 200 gallons (757 liters)	VWR Refrigerated Circulating Baths, VWR Heated Circulating Baths and VWR Circulating Open Bath Systems	71002-502
PolyScience polycool EG -25	Ethylene glycol. One gallon / 3.8 L. -25° to 100°C (-13° to 212°F) when mixed 50/50 with distilled water.	VWR Refrigerated Circulating Baths	71002-504
PolyScience polycool PG -20	Propylene glycol. One gallon / 3.8 L. -20° to 100°C (-4° to 212°F) when mixed 50/50 with distilled water.	VWR Refrigerated Circulating Baths	71002-506

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Accessories			
Description	Details	For Use With	Cat. No.
External Pt100 Probe	External Pt100 Probe, 6" with 10' length cable	VWR Refrigerated Circulating Baths and VWR Heated Circulating Baths with Advanced Digital and Advanced Programmable Controllers	89201-004
External Pt100 Probe	External Pt100 Probe, 6" with 25' length cable	VWR Refrigerated Circulating Baths and VWR Heated Circulating Baths with Advanced Digital and Advanced Programmable Controllers	89201-006
External Pt100 Probe	External Pt100 Probe, 6" with 50' length cable	VWR Refrigerated Circulating Baths and VWR Heated Circulating Baths with Advanced Digital and Advanced Programmable Controllers	89201-008
RS232 Cable	Cable Length: 9'	VWR Refrigerated Circulating Baths and VWR Heated Circulating Baths with Advanced Digital and Advanced Programmable Controllers	89201-010
Ethernet Cable	Cable Length: 9'	VWR Refrigerated Circulating Baths and VWR Heated Circulating Baths with Advanced Digital and Advanced Programmable Controllers	89201-012
1/4" ID Buna N Tubing	-40° to 120°C, order in continuous lengths of 3' (1 m)	VWR Refrigerated Circulating Baths, VWR Heated Circulating Baths and VWR Circulating Open Bath Systems	89201-056
Insulation for 1/4" Tubing	Order in continuous lengths of 3' (1 m)	VWR Refrigerated Circulating Baths, VWR Heated Circulating Baths and VWR Circulating Open Bath Systems	89201-062
Tube Clamps	For 1/4" and 3/8" ID tubing, stainless steel	VWR Refrigerated Circulating Baths, VWR Heated Circulating Baths and VWR Circulating Open Bath Systems	89201-076

Heating Immersion Circulators, JULABO

JULABO Range of Heating Immersion Circulators with wide range of functionality and features for applications from +20 to +300°C. Units have a mechanically adjustable pressure pump, over-temperature and low liquid level protection to avoid any potential damage. The compact circulators are suitable for use with most tanks to 50 L and a 26 mm wall thickness. All wetted parts and housing constructed of high quality stainless steel or plastic; units include a bath clamp.

ED models control a temperature range from 20 to 100°C with an LED temperature display for actual and set point values and keypad for set point input. Safety features include an adjustable high temperature cut-off and low liquid level protection via a float switch.

EH models: include features of the ED, with the addition of an extended temperature range of +20 to +150°C and an integrated timer.

MB models: suitable for use with small bath volumes up to 20 L, features PID temperature control with drift compensation, and early warning systems with audible signal for low liquid level and for high/low temperature limits. MB units have an operating temperature range up to 100°C with an LED multi-display with a resolution of 0.01/0.1°C. The actual and up to three set temperatures can be viewed. An RS232 interface facilitates control via PC.

MA models: in addition to the features of the MB, the MA has a wider temperature range to +200°C, electronically adjustable pump capacity and a temperature stability / resolution of ±0,01°C.

ME models: the more advanced ME has the same features as MB/MA models; in addition it has PID cascade temperature control for highest internal and external temperature stability. The VFD display gives simultaneous indication of internal/external set point and actual values and an integrated programmer (1x10 steps) for time and temperature dependent processes. The ME enables electronic control of the pump capacity and displays the pump setting. The ME has a Pt100 connection for external monitoring and control.

The SE-Z model is suitable for the most demanding applications; in addition to the features of the ME; includes Intelligent Cascade Control, self optimizing for optimum results and Temperature Control Features (TCF) for band limit, limit setting, co-speed factor and control dynamics. An electronically adjustable pressure / suction pump provides strong circulation for internal or external applications. With a temperature range up to 300°C and an extendable bridge (31 to 66 cm) the SE-Z can control tanks up to 100 L. A built-in cooling coil enables counter cooling with tap water. Barbed fittings for 8 and 12 mm ID tubing are included (pump connections M16x1 male).

CE.

Ordering Information: Accessories not included. Cooling coil is optional, except for Model SE-Z.



Electrical	Model	Capacity	Heating Capacity	W x L x H	Temperature Range	Temperature Stability	Immersion	Pump Flow Rate	Pump Pressure	Weight	Supplier No.	Cat. No.
115V, 60Hz, 9A	ED	to 50 L	1 kW	7.9 x 14.2 x 22"	+20 to +100°C	±0.03 °C	3.1-5.7" (Usable Depth)	15 L/min.	5.1 PSI	6.6 lbs.	9116000.02	89421-760
115V, 60Hz, 9A	EH	to 50 L	1 kW	9.1 x 16.5 x 24"	+20 to +150°C	±0.03 °C	3.1-5.7" (Usable Depth)	15 L/min.	5.1 PSI	6.6 lbs.	9118000.02	89421-762
115V, 60Hz, 9A	MA	to 50 L	1 kW	15 x 22.8 x 24.4"	+20 to +200°C	±0.01 °C	3.1-5.7" (Usable Depth)	11-16 L/min.	3.3-6.5 PSI	8.8 lbs.	9153000	89421-766
115V, 60Hz, 9A	MB	to 50 L	1 kW	16.5 x 16.5 x 16.5"	+20 to +100°C	±0.02 °C	3.1-5.7" (Usable Depth)	10 L/min.	1.74 PSI	6.6 lbs.	9142000	89421-764
115V, 60Hz, 9A	ME	to 50 L	1 kW	7.9 x 14.2 x 22"	+20 to +200°C	±0.01 °C	3.1-5.7" (Usable Depth)	11-16 L/min.	3.3-6.5 PSI	8.8 lbs.	9162000	89421-768
230V, 50-60Hz, 13A	SE-Z (with Integrated Cooling Coil)	to 100 L	3 kW	9.1 x 16.5 x 24"	+20 to +300°C	±0.01 °C	4.7-7.5" (Usable Depth)	22-26 L/min.	Pressure 5.8-10.2, Suction 2.9-5.8	17.6 lbs.	9252218	89421-770

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Accessories			
Description	For Use With	Supplier No.	Cat. No.
5 L Insulated Stainless Steel Bath Tanks, to +150°C		9902405	89422-008
13 L Insulated Stainless Steel Bath Tanks, to +150°C		9902413	89422-010
13A, 13L Plexiglas Bath Tank, to +60°C		9900313	89422-026
13M, 13 L Makrolon Bath Tank, to +100°C		9900513	89422-034
17 L Insulated Stainless Steel Bath Tanks, to +150°C		9902417	89422-012
19 L Insulated Stainless Steel Bath Tanks, to +150°C		9902419	89422-014
19A, 19L Plexiglas Bath Tank, to +60°C		9900319	89422-028
19M, 19 L Makrolon Bath Tank, to +100°C		9900519	89422-036
27 L Insulated Stainless Steel Bath Tanks, to +150°C, with Drain		9902427	89422-016
33 L Insulated Stainless Steel Bath Tanks, to +150°C, with Drain		9902433	89422-018
39 L Insulated Stainless Steel Bath Tanks, to +150°C, with Drain		9902439	89422-020
5A, 5L Plexiglas Bath Tank, to +60°C		9900305	89422-022
5M, 5 L Makrolon Bath Tank, to +100°C		9900505	89422-032
7A, 7L Plexiglas Bath Tank, to +60°C		9900307	89422-024
Bath Attachment Clamp; wall thickness up to 60 mm		8970421	89422-118
Cooling Coil for Counter-Cooling with tap water		8970105	89422-004
Pump Set for external temperature applications		8970140	89422-002
Stand Attachment Rod 200x12 mm for Laboratory Stands		8970022	89422-504
Thermal C5, Bath Fluid, 10 L, -60 to +110°C		8891402	89421-972
Thermal C5, Bath Fluid, 5 L, -60 to +110°C		8891403	89421-974
Thermal C10, Bath Fluid, 10 L, -20 to 160°C	—	8891404	89421-976
Thermal C10, Bath Fluid, 5 L, -20 to 160°C	—	8891405	89421-978
Thermal C20S, Bath Fluid, 10 L, 0 to 220°C	—	8891408	89421-984
Thermal C20S, Bath Fluid, 5 L, 0 to 220°C	—	8891409	89421-986
Thermal C50S, Bath Fluid, 10 L, 20 to 250°C	—	8891410	89421-988
Thermal C50S, Bath Fluid, 5 L, 20 to 250°C	—	8891411	89421-990



**Complex
Problems Require
Sophisticated
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VWR® Inverted Microscope

The VWR® Inverted Microscope is the ideal device for live cell and advanced applications, as well as routine laboratory, research, and educational needs.

The VWR® Inverted Microscope features a Trinocular Siedentopf trinocular tube with 45° inclination (Light Split = 20/80), Wide Focus PL 10x/22mm high eyepoint eyepiece, side facing quintuple nosepiece, CCIS planachromatic objective PL4X, CCIS planachromatic phase objective Ph10x, LWD PL Ph20x, LWD PL Ph40x, ELWD N.A. 0.30 condenser, centrable phase slider with PH1, PH3, and bright field, phase centering telescope, plain stage with attachable mechanical stage with well plate holders (128x86mm), glass and metal stage inserts, 32mm, 54mm, 65mm Petric dish holder, externally mounted centerable 6V/30W Koehler illumination with intensity control, 45mm blue ground glass and green interference filter, power cord, allen hexagonal key, vinyl dust cover, and universal power supply (100–240V).

C-UL, UL Listed. CSA certified.

Ordering Information: Microscope is supplied with all accessories listed above. The VWR® Inverted Microscope is supplied with a one-year warranty on electrical parts, and a five-year warranty on mechanical parts and optics.



Description	Cat. No.
VWR® Microscopes	
VWR® Inverted Microscope	89404-462
VWR® Eyepieces	
VWR® Wide Focus PL 10X/22mm, with Diopter Adjustment and Rubber Eye Cup	89403-572
VWR® Wide Focus PL 10X/22mm, with Cross Line and Diopter Adjustment	89403-574
VWR® Wide Focus PL 12.5X/17.5mm, with Diopter Adjustment	89403-576
VWR® Wide Focus PL 15X/14.5mm, with Diopter Adjustment	89403-578
VWR® N-WF PL 20X, Focusable with Diopter Adjustment	89496-650
VWR® Reticles	
VWR® Cross Line	89403-580
VWR® Micrometer (100 Divisions in 10 mm)	89403-582
VWR® Cross Line with Micrometer (100 Divisions in 10 mm)	89403-584
VWR® Planachromatic Objectives	
VWR® ISCC Planachromatic PL 4X/0.1	89403-586
VWR® ISCC Planachromatic PL 10X/0.25	89403-588
VWR® Planachromatic Long Working Distance Objectives	
VWR® ISCC LWD Planachromatic PL 20X/0.4 (to be used with LWD N.A. 0.5 Condenser)	89403-590
VWR® ISCC LWD Planachromatic PL 40X/0.6 (to be used with LWD N.A. 0.5 Condenser)	89403-592
VWR® ISCC LWD Planachromatic PL 60X/0.7 (to be used with LWD N.A. 0.5 Condenser)	89403-594
VWR® Planachromatic Phase Long Working Distance Objectives	
VWR® ISCC LWD Planachromatic Phase Ph10X/0.25	89403-596
VWR® ISCC LWD Planachromatic Phase Ph20X/0.40	89403-598
VWR® ISCC LWD Planachromatic Phase Ph40X/0.60	89403-600
VWR® Condensers	
VWR® ELWD N.A. 0.30 (W.D. 72mm) Condenser	89403-602
VWR® LWD N.A. 0.5 (W.D. 28mm) Condenser	89403-604
VWR® Phase Contrast Equipment	
VWR® Phase Centering Telescope	89403-508
VWR® Phase Sliders, Centerable, Ph1, Brightfield, Ph3 (for ELWD Condenser)	89403-606
VWR® Phase Sliders, Centerable, Ph1, Brightfield, Ph3 (for LWD Condenser)	89403-608
VWR® Stage Accessories	
VWR® Glass Insert	89403-610
VWR® Metal Insert	89403-612
VWR® AuXilliary Stage (per piece)	89403-614
VWR® Universal Attachable Mechanical Stage with Well Plate Holders (128 x 86mm)	89403-616
VWR® Well Plate Holder (132 x 88mm)	89403-618
VWR® 35mm Petri Dish Holder	89403-620
VWR® 54mm Petri Dish Holder	89403-622
VWR® 65mm Petri Dish Holder	89403-624
VWR® Hemacytometer Holder	89403-626
VWR® Camera and Photomicroscopy Attachments	
VWR® Quartz Halogen Lamp, 6V/30W	89403-566
VWR® 1X C-Mount Camera Adapter (no Lens)	89403-628
VWR® 0.65X C-Mount Camera Adapter for 2/3" Chip Sensors	89403-630
VWR® 0.5X C-Mount Camera Adapter for 1/3" Chip Sensors	89403-632
VWR® 0.35X C-Mount Camera Adapter for 1/3" Chip Sensors	89403-634



VWR® Inverted Fluorescence Microscope

This advanced Inverted Fluorescence Microscope is ideal for applications in biology, cell cytology, genetics, oncology, and immunology. It is also suited for research, universities, routine laboratory, and medical demands.

The VWR® Inverted Fluorescence Microscope features Siedentopf trinocular tube with a 45° inclination (Light Split = 0/100), Wide Focus PL 10X/22mm high eyepoint eyepiece, side facing quintuple nosepiece, CCIS planachromatic objective PL4X, LWD CCIS planachromatic phase objective Ph10X, LWD PL Ph20X, LWD PL Ph40X, ELWD N.A. 0.30 condenser, centerable phase slider with PH1, PH3, and bright field, phase centering telescope, plain stage equipped with attachable mechanical stage with well plate holders (128X86mm), glass and metal stage inserts, 32mm, 54mm, and 65mm Petri dish holders, eXternally mounted centerable 6V/30W Koehler illumination with intensity control, 45mm blue ground glass and green interference filter, power cord, allen hexagonal key, vinyl dust cover, and universal power supply (100–240V). Complete Epifluorescence attachment includes, Epifluorescence attachment with filter cassette, mercury lamp (100W), lamphouse HBO (100W), collector lens and mercury lamp socket, starter unit HBO (100W), and lamp centering tool. DAPI, FITC, and TRITC filter cubes included.



C-UL, UL Listed. CSA certified.

Ordering Information: Microscope is supplied with all accessories listed above. The microscope is supplied with a one-year warranty on electrical parts, and a five-year warranty on mechanical parts and optics.

Description	Cat. No.
VWR® Microscopes	
VWR® Inverted Fluorescence Microscope	89404-464
VWR® Optional Accessories	
VWR® 45 mm Blue Filter	89403-562
VWR® 45 mm Didymium Filter	89403-564

Accessories	
Description	Cat. No.
VWR® Wide Focus PL 10X/22mm, with Diopter Adjustment and Rubber Eye Cup	89403-572
VWR® Wide Focus PL 10X/22mm, with Cross Line and Diopter Adjustment	89403-574
VWR® Wide Focus PL 12.5X/17.5mm, with Diopter Adjustment	89403-576
VWR® Wide Focus PL 15X/14.5mm, with Diopter Adjustment	89403-578
VWR® Cross Line	89403-580
VWR® Micrometer (100 Divisions in 10 mm)	89403-582
VWR® Cross Line with Micrometer (100 Divisions in 10 mm)	89403-584
VWR® ISCC Planachromatic PL 4X/0.1	89403-586
VWR® ISCC Planachromatic PL 10X/0.25	89403-588
VWR® ISCC LWD Planachromatic PL 20X/0.4 (to be used with LWD N.A. 0.5 Condenser)	89403-590
VWR® ISCC LWD Planachromatic PL 40X/0.6 (to be used with LWD N.A. 0.5 Condenser)	89403-592
VWR® ISCC LWD Planachromatic PL 60X/0.7 (to be used with LWD N.A. 0.5 Condenser)	89403-594
VWR® ISCC LWD Planachromatic Phase Ph10X/0.25	89403-596
VWR® ISCC LWD Planachromatic Phase Ph20X/0.40	89403-598
VWR® ISCC LWD Planachromatic Phase Ph40X/0.60	89403-600
VWR® ELWD N.A. 0.30 (W.D. 72mm) Condenser	89403-602
VWR® LWD N.A. 0.5 (W.D. 28mm) Condenser	89403-604
VWR® Phase Centering Telescope	89403-508
VWR® Phase Sliders, Centerable, Ph1, Brightfield, Ph3 (for ELWD Condenser)	89403-606
VWR® Phase Sliders, Centerable, Ph1, Brightfield, Ph3 (for LWD Condenser)	89403-608
VWR® Glass Insert	89403-610
VWR® Metal Insert	89403-612
VWR® AuXilliary Stage (per piece)	89403-614
VWR® Universal Attachable Mechanical Stage with Well Plate Holders (128 x 86mm)	89403-616
VWR® Well Plate Holder (132 x 88mm)	89403-618
VWR® 35mm Petri Dish Holder	89403-620
VWR® 54mm Petri Dish Holder	89403-622
VWR® 65mm Petri Dish Holder	89403-624
VWR® Hemacytometer Holder	89403-626
VWR® 1X C-Mount Camera Adapter (no Lens)	89403-628
VWR® 0.65X C-Mount Camera Adpater for 2/3" Chip Sensors	89403-630
VWR® 0.5X C-Mount Camera Adpater for 1/2" Chip Sensors	89403-632
VWR® 0.35X C-Mount Camera Adpater for 1/3" Chip Sensors	89403-634
VWR® Quartz Halogen Lamp, 6V/30W	89403-566



VWR® Stereo Zoom Trinocular Microscope

High performance Stereo Microscope is ideally suited for life science, industrial and pharmaceutical inspection, electronic assembly, and bonding operations.

The VWR® Stereo Zoom Microscope features the Greenough Zoom Optical System, a trinocular head with 360° rotation, photo/video: 100% [right eyetube], and widefield eyepieces 10X/F.N. 23. The unit offers 6.7:1 zoom ratio, WD = 113mm, and a magnification range of 0.75X–5X. Additional standard features include incident/transmitted large working area stand, a 12V/10W intensity-controlled halogen incident, and transmitted illumination. Main power supply is 100–240V.

Ordering Information: Microscope is supplied with all accessories listed above. The microscope is supplied with a one-year warranty on electrical parts, and a five-year warranty on mechanical parts and optics.



Description	Cat. No.
VWR® Microscopes	
VWR® Stereo Zoom Trinocular Microscope	89404-476
VWR® Additional Illumination	
VWR® Fluorescent Ring Illuminator for Advanced Stereo 6400K Color Temperature, 110V/12W	89403-412
VWR® Eyepieces	
VWR® 1300: Widefield 5X/F.N. 23	89403-414
VWR® 1301: Widefield 6.25X/F.N. 23	89403-416
VWR® 2302: Widefield 10X/F.N. 23	89403-418
VWR® 1303: Widefield 15X/F.N. 17.6	89403-420
VWR® 1304: Widefield 20X/F.N. 13.4	89403-422
VWR® 1307: Widefield 30X/F.N. 8	89403-424
VWR® 1308: Widefield 32X/F.N. 8	89403-426
VWR® Polarizing, Darkfield Equipment, and Spare Bulbs	
VWR® Dust Cover	89403-468

Accessories	
Description	Cat. No.
VWR® Darkfield Attachment, with Iris Diaphragm	89403-396
VWR® 12V/10W Halogen Replacement Bulb for Transmitted Illumination	89403-462



VWR® Stereo Basic Halogen 2x–4x Microscope

The VWR® Stereo Basic Halogen 2X–4X Microscope is designed for use in electronics inspection, education, and life science applications.

The VWR® Stereo Basic Halogen 2X–4X Microscope features a 45° binocular stereo microscope head, widefield eyepieces 10X/F.N. 20, turret objective magnification of 2X–4X, 12V/10W intensity-controlled halogen incident, and transmitted illumination. Main power supply is 100V–240V.

Ordering Information: Microscope is supplied with all accessories listed above. The microscope is supplied with a one-year warranty on electrical parts, and a five-year warranty on mechanical parts and optics.



Description	Cat. No.
VWR® Polarizing, Darkfield Equipment, and Spare Bulbs	
VWR® Darkfield Attachment, with Iris Diaphragm	89403-396
VWR® 12V/10W Halogen Replacement Bulb for Transmitted Illumination	89403-462

Custom Manufacturing

In addition to the products listed in our catalogue, Anachemia has the manufacturing capabilities to produce almost any chemical formulation or custom package size or type that your organization may need. Whether your goal is to reduce your staff's time spent preparing formulations used in your lab or to have product pre-packaged in single dose units, Anachemia's experienced chemical manufacturing personnel can assist you.

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VWR COLLECTION

VWR® V5 Microscope Camera

This easy-to-use still and video digital 5 megapixel camera is adaptable to a variety of applications.

The VWR® attachable microscope camera offers 5.0MP live resolution and is equipped with a USB cable. It includes Images Plus 2.0 Software for PC and MAC.

C-UL, UL Listed. CSA certified.

Ordering Information: Microscope camera is supplied with the accessories listed above and one-year warranty.



Description	Cat. No.
VWR® V5 Microscope Camera	89404-504

VWR COLLECTION

VWR® Compound Trinocular Microscope

The VWR® Compound Trinocular Microscope, equipped with Planachromatic Objectives, makes this microscope series ideal for lab, routine, and research work. The series offers an ergonomic, anti-fatigue design to enable long hours of comfortable observation.

This VWR® Compound Microscope features a Trinocular Siedentopf type head with a 30° inclination and 360° rotating capabilities. Standard features include, widefield eyepieces WF10X / 20mm, reversed quintuple nosepiece, plan objectives PL 4X, 10X, 40X S, 100X S-Oil, coaxial coarse and fine focusing adjustment, built in low position coaxial mechanical stage, centerable and focusable 1.25 N.A Abbe condenser, iris diaphragm with filter holder, Koehler illumination halogen 12V / 20W with intensity control, main supply 110V UL approved.

C-UL, UL Listed. CSA certified.

Ordering Information: Microscope is supplied with all accessories listed above. The microscope is supplied with a one-year warranty on electrical parts, and a five-year warranty on mechanical parts and optics.



Description	Cat. No.
VWR® Microscopes	
VWR® Compound Trinocular Microscope	89404-468
VWR® Eyepieces and Micrometers	
VWR® Widefield Eyepiece WF 10X/20mm	89403-326
VWR® Widefield Eyepiece WF15X/12 mm, with Pointer	89403-328
VWR® Widefield Eyepiece WF 15X/12 mm, without Pointer	89403-330
VWR® Widefield Eyepiece WF 20X/11 mm	89403-332
VWR® Planachromatic Objectives	
VWR® Planachromatic Objective PL 4X/0.10	89403-340
VWR® Planachromatic Objective PL 10X/0.25	89403-342
VWR® Planachromatic Objective PL 20X/0.40	89403-344
VWR® Planachromatic Objective PL 40X/0.65/S	89403-346
VWR® Planachromatic Objective PL 60X/0.85/S	89403-348
VWR® Planachromatic Objective PL 100X/1.25/S-Oil	89403-350
VWR® Phase Contrast, Darkfield, and Polarizing Accessories	
VWR® Complete Phase Contrast Set (VWR® Planachromatic Objectives PLPH 10X, 20X, 40X S, and 100X S-Oil, 1.25 N.A. and Centering Telescope)	89403-362
VWR® Polarizing Set	89403-472

Accessories	
Description	Cat. No.
VWR® Plate Stage Micrometer	89496-656
VWR® 45 mm Frosted Filter	89496-668

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VWR® Professional Trinocular Microscope

The VWR® Professional Trinocular Microscope is suitable for advanced lab and hospital applications in biological, medical, and agricultural research fields.

This VWR® Professional microscope features a Siedentopf type trinocular head with 30° inclination and 360° rotating capability. Light distribution is 100/0, 20/80. Standard features include widefield eyepieces WF 10X/20mm, reversed quadruple nosepiece, planachromatic objectives PL 4X, 10X, 40X S, and 100X S-Oil, coaxial coarse and fine focusing adjustment, built-in low position coaxial mechanical stage, centerable and focusable 1.25 N.A Abbe condenser, iris diaphragm with filter holder, and Koehler illumination 3W LED with intensity control. Main power supply is 110V.

C-UL, UL Listed. CSA certified.

Ordering Information: Microscope is supplied with all accessories listed above. The microscope is supplied with a one-year warranty on electrical parts, and a five-year warranty on mechanical parts and optics.



Description	Cat. No.
VWR® Photo and C-Mount Camera Adapters, and Spare Bulbs	
VWR® LED Bulb Assembly	89403-474
VWR® Immersion Oil, 5 mL	89403-568
Accessories	
Description	Cat. No.
VWR® Widefield Eyepiece WF 10X/20mm	89403-326
VWR® Widefield Eyepiece WF15X/12 mm, with Pointer	89403-328
VWR® Widefield Eyepiece WF 15X/12 mm, without Pointer	89403-330
VWR® Widefield Eyepiece WF 20X/11 mm	89403-332
VWR® Plate Stage Micrometer	89496-656
VWR® Planachromatic Objective PL 4X/0.10	89403-340
VWR® Planachromatic Objective PL 10X/0.25	89403-342
VWR® Planachromatic Objective PL 20X/0.40	89403-344
VWR® Planachromatic Objective PL 40X/0.65/S	89403-346
VWR® Planachromatic Objective PL 60X/0.85/S	89403-348
VWR® Planachromatic Objective PL 100X/1.25/S-Oil	89403-350
VWR® Polarizing Set	89403-472
VWR® 0.5X C-Mount Camera Adapter for 1/4" Chip Sensors	89403-550

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The VWRCATALYST team of Lean Six Sigma-trained Business Process Consultants can help you move faster, control costs, and drive quality. Our process has evolved from decades of collaboration with the scientific community, and has proven to optimize laboratory and production processes, such as procurement, inventory management, scientific research support, and more. View our library of Success Stories today at ca.vwr.com/vwrcatalyst.





VWR® Professional Infinity Planachromatic Phase Binocular Microscope

The VWR® Professional Infinity Planachromatic Phase Binocular Microscope is suitable for advanced lab, hospital, research, and university applications.

This VWR® Professional microscope features a Siedentopf type binocular head with 30° inclination and 360° rotating capabilities. Additional features include widefield eyepieces WF 10X/20mm, reversed quadruple nosepiece, infinity planachromatic objective PL 4X, phase contrast infinity planachromatic objectives PLPH 10X, 40X S, and 100X S-Oil, coaxial coarse and fine focusing adjustment, built-in low position coaxial mechanical stage, special 5-hole turret type Abbe condenser 1.25 N.A. with choices for phase contrast 10X, 40X, 100X, brightfield and darkfield, centering telescope, and Koehler illumination 3W LED with intensity contro. Main power supply is 110V.

C-UL, UL Listed. CSA certified.

Ordering Information: Microscope is supplied with all accessories listed above. The microscope is supplied with a one-year warranty on electrical parts, and a five-year warranty on mechanical parts and optics.



Description	Cat. No.
VWR® Microscopes	
VWR® Professional Infinity Planachromatic Phase Binocular Microscope	89404-892
VWR® Planachromatic Phase Objectives - PL PH	
VWR® ISCC Planachromatic Phase Objective 10X/0.25 (WD=4.3mm)	89403-526
VWR® ISCC Planachromatic Phase Objective 20X/0.4 (WD=1.3mm)	89403-528
VWR® ISCC Planachromatic Phase Objective 40X/0.65/S (WD=0.4mm)	89403-530
VWR® ISCC Planachromatic Phase Objective 100X/1.25/S-Oil (WD=0.13mm)	89403-532
VWR® Phase Contrast Accessories	
VWR® Phase Contrast 5-Position (BF, 10X, 20X, 40X, 100X) for use with Planachromatic Phase Objectives	89403-538
VWR® Phase Contrast 5-Position (BF, DF, 10X, 40X, 100X) Turret Condenser fore use with Planachromatic Phase Objectives	89403-540
VWR® Photo and Video Adapters, Filters, and Replacement Bulbs	
VWR® 45mm Yellow Filter	89403-558
VWR® 45 mm Green Filter	89403-560
VWR® Power Cord, UL/CSA Plug	89403-570

Accessories	
Description	Cat. No.
VWR® IPL 4X	89403-490
VWR® IPL 10X	89403-492
VWR® IPL 20X	89403-494
VWR® IPL 40X	89403-496
VWR® IPL 60X	89403-498
VWR® IPL 100X	89403-500
VWR® Plate Stage Micrometer	89496-656
VWR® Phase Centering Telescope	89403-508
VWR® Dust Cover	89403-468
VWR® Polarizing set	89496-654
VWR® LED Bulb Assembly	89403-474
VWR® 1X C-Mount Camera Adapter (No Lens)	89403-546
VWR® 0.65X C-Mount Camera Adapter for 2/3" Chip Sensors	89403-548
VWR® 0.5X C-Mount Camera Adapter for 1/2" Chip Sensors	89403-550
VWR® Photo Adapter (Requires a Photo Eyepiece)	89403-552
VWR® 2.5X Photo Eyepiece	89403-554
VWR® 4X Photo Eyepiece	89403-556
VWR® 45 mm Blue Filter	89403-562
VWR® 45 mm Didymium Filter	89403-564
VWR® Quartz Halogen Lamp, 6V/30W	89403-566
VWR® Immersion Oil, 5 mL	89403-568
VWR® N-WF PL 20X, Focusable with Diopter Adjustment	89496-650
VWR® Micrometer Eyepiece 10X, 100 Divisions in 10 mm	89496-652

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VWR® Professional Infinity Planachromatic Trinocular Microscope

The VWR® Professional Infinity Planachromatic Trinocular Microscope is suitable for advanced lab, hospital, research, and university applications.

This VWR® Professional microscope features a Siedentopf type trinocular head with 30° inclination and 360° rotating capabilities. Light distribution is 100/0, 20/80. Additional standard features include widefield eyepieces WF 10X/20mm, reversed quadruple nosepiece, infinity planachromatic objectives IPL 4X, 10X, 40X S, and 100X S-Oil, coaxial coarse and fine focusing adjustment, built-in low position coaxial mechanical stage, centerable and focusable 1.25 N.A Abbe condenser, iris diaphragm with filter holder, and Koehler illumination 3W LED with intensity control. Main power supply is 110V.

C-UL, UL Listed. CSA certified.

Ordering Information: Microscope is supplied with all accessories listed above. The microscope is supplied with a one-year warranty on electrical parts, and a five-year warranty on mechanical parts and optics.



Description	Cat. No.
VWR® Eyepieces	
VWR® Micrometer Eyepiece 10X, 100 Divisions in 10 mm	89496-652
VWR® Infinity Planachromatic Objectives	
VWR® IPL 4X	89403-490
VWR® IPL 10X	89403-492
VWR® IPL 20X	89403-494
VWR® IPL 40X	89403-496
VWR® IPL 60X	89403-498
VWR® IPL 100X	89403-500
VWR® Photo And Video Adapters, and Spare Bulbs	
VWR® 1X C-Mount Camera Adapter (No Lens)	89403-546
VWR® 0.65X C-Mount Camera Adapter for 1/2" Chip Sensors	89403-548
VWR® 0.5X C-Mount Camera Adapter for 1/2" Chip Sensors	89403-550
VWR® Photo Adapter (Requires a Photo Eyepiece)	89403-552
VWR® 2.5X Photo Eyepiece	89403-554
VWR® 4X Photo Eyepiece	89403-556
Polarizing Accessories	
VWR® Polarizing set	89496-654

Accessories	
Description	Cat. No.
VWR® N-WF PL 20X, Focusable with Diopter Adjustment	89496-650
VWR® Plate Stage Micrometer	89496-656
VWR® Dust Cover	89403-468
VWR® 0.5X C-Mount Camera Adapter for 1/2" Chip Sensors	89403-550
VWR® 45mm Yellow Filter	89403-558
VWR® 45 mm Green Filter	89403-560
VWR® 45 mm Blue Filter	89403-562
VWR® LED Bulb Assembly	89403-474
VWR® 45 mm Didymium Filter	89403-564
VWR® Immersion Oil, 5 mL	89403-568
VWR® Power Cord, UL/CSA Plug	89403-570

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VWR® Professional Infinity Planachromatic Phase Trinocular Microscope

The VWR® Professional Infinity Planachromatic Phase Trinocular Microscope is suitable for advanced lab, hospital, research, and university applications.

This VWR® Professional microscope features a Siedentopf type trinocular head with 30° inclination and 360° rotating capabilities. Light distribution is 100/0, 20/80. Additional standard features include widefield eyepieces WF 10X/20mm, reversed quadruple nosepiece, infinity planachromatic objective PL 4X, phase contrast infinity planachromatic objectives PLPh 10X, 40X S, and 100X S-Oil, coaxial coarse and fine focusing adjustment, built-in low position coaxial mechanical stage, special 5-hole turret type Abbe condenser 1.25 N.A. with choices for phase contrast 10X, 40X, and 100X, brightfield and darkfield, Centering telescope, and Koehler illumination 3W LED with intensity control. Main power supply is 110V.

C-UL, UL Listed. CSA certified.

Ordering Information: Microscope is supplied with all accessories listed above. The microscope is supplied with a one-year warranty on electrical parts, and a five-year warranty on mechanical parts and optics.



Description	Cat. No.
VWR® Microscopes	
VWR® Professional Infinity Planachromatic Phase Trinocular Microscope	89404-894
Accessories	
Description	Cat. No.
VWR® IPL 4X	89403-490
VWR® IPL 10X	89403-492
VWR® IPL 20X	89403-494
VWR® IPL 40X	89403-496
VWR® IPL 60X	89403-498
VWR® IPL 100X	89403-500
VWR® Plate Stage Micrometer	89496-656
VWR® ISCC Planachromatic Phase Objective 10X/0.25 (WD=4.3mm)	89403-526
VWR® ISCC Planachromatic Phase Objective 20X/0.4 (WD=1.3mm)	89403-528
VWR® ISCC Planachromatic Phase Objective 40X/0.65/S (WD=0.4mm)	89403-530
VWR® ISCC Planachromatic Phase Objective 100X/1.25/S-Oil (WD=0.13mm)	89403-532
VWR® Phase Centering Telescope	89403-508
VWR® Phase Contrast 5-Position (BF, 10X, 20X, 40X, 100X) for use with Planachromatic Phase Objectives	89403-538
VWR® Phase Contrast 5-Position (BF, DF, 10X, 40X, 100X) Turret Condenser fore use with Planachromatic Phase Objectives	89403-540
VWR® Dust Cover	89403-468
VWR® Polarizing set	89496-654
VWR® LED Bulb Assembly	89403-474
VWR® 1X C-Mount Camera Adapter (No Lens)	89403-546
VWR® 0.65X C-Mount Camera Adapter for 2/3" Chip Sensors	89403-548
VWR® 0.5X C-Mount Camera Adapter for 1/2" Chip Sensors	89403-550
VWR® Photo Adapter (Requires a Photo Eyepiece)	89403-552
VWR® 2.5X Photo Eyepiece	89403-554
VWR® 4X Photo Eyepiece	89403-556
VWR® 45mm Yellow Filter	89403-558
VWR® 45 mm Green Filter	89403-560
VWR® 45 mm Blue Filter	89403-562
VWR® 45 mm Didymium Filter	89403-564
VWR® Quartz Halogen Lamp, 6V/30W	89403-566
VWR® Immersion Oil, 5 mL	89403-568
VWR® Power Cord, UL/CSA Plug	89403-570
VWR® N-WF PL 20X, Focusable with Diopter Adjustment	89496-650
VWR® Micrometer Eyepiece 10X, 100 Divisions in 10 mm	89496-652



VWR® Metallurgical Microscope

Designed for educational and industrial applications aimed at metallurgical and petro graphic requirements.

The VWR® Metallurgical Microscope features a Trinocular head with 30° inclination (Light Split 100:0/20:80). The interpupillary distance is 55–75mm. Additional features include widefield high eyepoint eyepieces WF10X/18mm, reversed quadruple revolving nosepiece, CCIS planachromatic objectives (5X, 10X, 20X, and 50X), coaxial coarse and fine focusing system with tension adjustment, focusable Abbe condenser N.A. 1.25, epi-illumination quartz halogen 12V/50W lamp with eXternal lamp house and intensity control, power supply (100–240V), and transmitted illumination quartz halogen 6V/20W lamp with intensity control.

C-UL, UL Listed. CSA certified.

Ordering Information: Microscope does not come with accessories. Accessories may be ordered separately. The microscope is supplied with a one-year warranty on electrical parts, and a five-year warranty on mechanical parts and optics.



Description	Cat. No.
VWR® Eyepieces and Micrometers	
VWR® Plate Stage Micrometer	89496-656
VWR® Optional Accessories	
VWR® 45 mm Frosted Filter	89496-668
Accessories	
Description	Cat. No.
VWR® 1X C-Mount Camera Adapter (No Lens)	89403-546
VWR® 0.5X C-Mount Camera Adapter for 1/2" Chip Sensors	89403-550
VWR® 45 mm Green Filter	89403-560
VWR® Widefield Eyepiece WF15X/12 mm, with Pointer	89403-328
VWR® Widefield Eyepiece WF 20X/11 mm	89403-332
VWR® 45 mm Blue Filter	89403-562
VWR® V5 Microscope Camera	89404-504



VWR® Micro Cover Glasses, Square, No.1

Cover glasses are corrosion-resistant and uniformly thick and flat. No. 1 thickness is 0.13 to 0.17mm.

Ordering Information: Packaged 1oz. per plastic box.

L x W	Supplier No.	Cat. No.
22 x 22 mm (7/8 x 7/8")	22X22-1	CA48366-067-1



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VWR COLLECTION

VWR® Micro Cover Glasses, Round, No. 2

These microscope cover glasses are corrosion-resistant and uniformly thin and flat. The processing techniques result in superior cleanliness. Cover glasses are free from bubbles, scratches, and striations. Thickness: 0.17–0.25mm.

Ordering Information: Packaged 1oz. per plastic box.

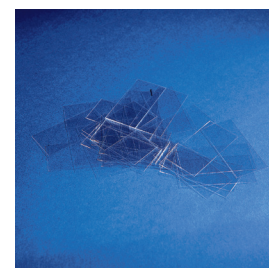


Diameter	Cat. No.
18 mm (²³ / ₃₂ "	CA48382-041

VWR COLLECTION

VWR® SuperSlips™ Micro Cover Glasses, Rectangular, No. 1

These cover glasses are corrosion-resistant and uniformly thin and flat. The processing techniques result in superior cleanliness. Superslip coverslips combine specialized production methods with moisture-resistant packaging to prevent sticking. Suitable for applications in humid environments. Thickness: 0.13 to 0.17mm. Supplied in 1 oz. increments.



L x W	Cat. No.
25 x 50 mm (1 x 2")	CA48404-452

VWR COLLECTION

VWR® Superfrost® and Colorfrost® Micro Slides

- Easy to Write On, Easy to Read
- Key Shows Which Side is Up
- Eliminate Sticking and Scratching

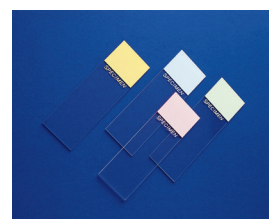
Slides are frosted and have a brilliant colored, opaque coating. Coating takes and retains most laboratory marking methods better than plain or conventional frosted slides. The coating is impervious to most common laboratory chemicals and reagents. Slides feature a raised printed writing surface that eliminates the need for paper labels and re-labeling of slides.

Premium slides **48311-950** and **48311-702** are made of premium quality sheet glass.

All slides have the word "SPECIMEN" printed on them, except for the white Premium Superfrost slide, which is unprinted.

All slides are 75x25mm, except for **48311-655** which is 3x1". All slides are autoclavable.

Ordering Information: For additional sizes and thicknesses, contact your VWR sales representative.



Description	L x W	Thickness	Color	Cat. No.
Premium Superfrost Slides	75 x 25 mm	1 mm	Bright White	CA48311-702

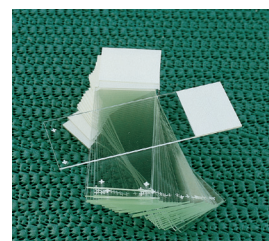
VWR COLLECTION

VWR® Superfrost® Plus Micro Slide

Slides have an opaque coating that retains most laboratory marking methods.

Slides are specially treated for frozen tissue sections and cytology preparation applications, eliminating the need for special adhesives and protein coatings. Cytology preparations placed on these slides resist cell loss during enzyme digestion, DNA denaturation, and RNA hybridization. Slides also improve tissue adherence during microwave staining. Color: white.

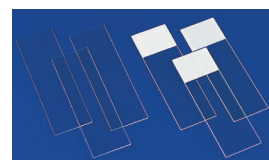
L x W	Thickness	Color	Cat. No.
75 x 25 mm	1 mm	White	CA48311-703



VWR COLLECTION

VWR® Plain and Frosted Micro Slides

These pre-cleaned slides are made from the highest quality sheet glass. Frosted slides are sandblasted for marking specimens. Frosted slides are sandblasted on one end of one side. Double frosted slides are sandblasted on one end of both sides. Economy slides are made from a lesser-quality sheet glass for greater cost-effectiveness.



L x W	Thickness	Cat. No.
Plain Slides		
75 x 25 mm	1 mm	CA48300-025
3 x 1"	1 mm	CA48300-047
Frosted Slides		
3 x 1"	1.2 mm	CA48312-013

VWR  **COLLECTION**

VWR® Micro Slide Trays, Cardboard

Slide trays accommodate 20 or 30 standard 25x75mm (1x3") slides. The horizontal compartments are recessed, protecting the specimens when the cover is closed. Compartments feature a thumb cut for easy slide removal.



L x W x H	No. of Places	Cat. No.
20.8 x 34.1 x 9 cm (8 ³ / ₁₆ x 13 ⁷ / ₁₆ x 3 ¹ / ₂ ")	20	82020-913

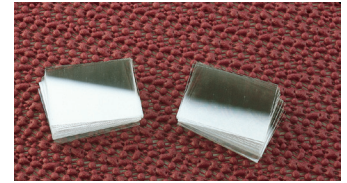
Xylenes, ACS Reagent Grade.

Size	Packaging	Supplier No.	Cat. No.
1 gal.	Poly Bottle	9900-1	CA48218-746
5 gal.	Cube Container	9900-5	CA48218-748
55 gal.	Poly Drum	9900-55	CA48218-750

VWR  **COLLECTION**

VWR® Micro Cover Glasses, Rectangular, No. 1

Made from the best quality glass, these cover glasses are uniform in thickness and size. No. 1 thickness is 0.13 to 0.17mm. Noncorrosive.



Ordering Information: Packed 1oz. per box.

L x W	Cat. No.
24 x 50 mm (2 ¹ / ₂ x 2")	CA48393-081-1
24 x 60 mm (2 ¹ / ₂ x 2 ³ / ₈ ")	CA48393-106-1

VWR  **COLLECTION**

VWR® Histology Reagents

- Bulk reagents in convenient packaging
- Strict quality control release testing
- Complete product line for tissue processing

VWR® Histology Reagents are manufactured from high quality raw materials in an ISO 13485 facility, ensuring optimal performance in your histology lab. Our complete line of fixatives, dehydrants, and clearing agents make us the one source for all of your tissue processing needs. All gallon size reagents are packaged in rectangle shaped bottles, for easy storage in flammable safety cabinets and storage shelves.



Description	Size	Supplier No.	Cat. No.
Alcohol			
Reagent Grade Alcohol, 70%	1 gal.	9851500	89370-078
Reagent Grade Alcohol, 80%	1 gal.	9851501	89370-080
Reagent Grade Alcohol, 95%	1 gal.	9851502	89370-082
Reagent Grade Alcohol, 100%	1 gal.	9851503	89370-084
Isopropyl Alcohol	1 gal.	9851504	89370-086
Formalin			
10% Neutral Buffered Formalin	1 gal.	9851508	89370-094
10% Neutral Buffered Formalin, Cube with Spigot	2.5 gal.	4009277	16004-126
10% Neutral Buffered Formalin, Cube with Spigot	5 gal.	4009278	16004-128
Xylene			
Xylene	1 gal.	9851505	89370-088
Xylene Substitute	1 gal.	9851506	89370-090
D-limonene	1 gal.	9851507	89370-092

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VWR® Prefilled Histology Containers, 10% Neutral Buffered Formalin (NBF)

Containers are specifically designed for the collection and transport of various sizes of tissue samples. Each prefilled polypropylene container is stackable, shatter-resistant, made of high-clarity virgin polypropylene, and half-filled with 10% NBF. Polypropylene containers feature top and bottom positive grip knurls for easy opening and closing even when wearing protective gloves. A reinforcing ring on the side of the container provides added stability and reduces the risk of leakage. The 20, 40, 60, 90, and 120mL sizes offer proprietary proof of closure.

Prefilled polypropylene containers feature polyethylene screw caps with dual thread closures and a unique integrated leak-resistant seal. Bulk formalin is packaged in polyethylene Cubitainer® containers.

Prefilled polypropylene and polyethylene Cubitainer® containers are manufactured under strict process control and 24-hour high-pressure leak resistance quality control testing is performed on all lots. Fully traceable lot numbers are provided. These containers are 95kPa compliant; testing results are available upon request.

The 3840mL (129.8oz.) size is packaged in a polypropylene paint can with metal lid. The can is equipped with a metal handle for easy transport.

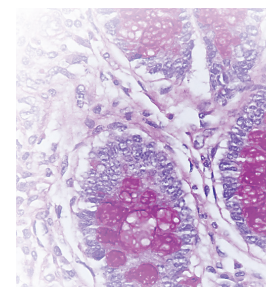


Description	Capacity	Cat. No.
Prefilled Polypropylene Containers	20 mL (0.67 oz.)	16004-112
Prefilled Polypropylene Containers	60 mL (2 oz.)	16004-116
Prefilled Polypropylene Containers	90 mL (3 oz.)	16004-118
Prefilled Polypropylene Containers	120 mL (4 oz.)	16004-120
Prefilled Polypropylene Containers	480 mL (16.2 oz.)	16004-124
Prefilled Polypropylene Containers	1 L (33.8 oz.)	16004-130

Richard-Allan Scientific® Histology Stains, Thermo Scientific

Ready-to-use liquid and dry powder stains for a variety of histology and cytology applications.

Description	Size	Application	Supplier No.	Cat. No.
Liquid Stains				
Hematoxylin 2	0.47 L (16 oz.)	For Progressive Nuclear Staining in Histology	7231	CA41810-446
Eosin Y	473 mL (16 oz.)	Counterstain for Delineation of Cytoplasmic Components	7111	CA41810-450
Clarifier® 1	3.8 L (1 gal.)	Improved Contrast Between Nuclei and Cytoplasm; Increased Cell Transparency	7401	CA41810-468
Hematoxylin 7211	473 mL (16 oz.)	An Alternative Hematoxylin with no Affinity for Mucin Staining	7211	CA41810-472



Richard-Allan Scientific® Histology/Cytology Reagents, Thermo Scientific®

Easy-to-pour containers reduce spills. Product identification bands make the products easy to identify and distinguish from other laboratory chemicals.

Description	Size	Application	Packaging	Supplier No.	Cat. No.
Flex™ 80	1 gal.	Lipid Extraction, Dehydration, Solvent for Special Stains	Poly Bottle	8301R	CA14214-928
Flex™ 95	1 gal.	Lipid Extraction, Dehydration, Solvent for Special Stains	Poly Bottle	8201	CA41810-478
Acetone	1 gal.	Dehydration	Poly Bottle	9011	CA72060-060
Reagent Alcohol	1 gal.	Dehydration	Poly Bottle	9111	CA72060-066
2-Propanol	1 gal.	Dehydration	Poly Bottle	9511	CA72060-068
2-Propanol	5 gal.	Dehydration	Poly Carboy	9515	CA72060-070
Toluene	5 gal.	Clearing	Poly Carboy	9715	CA72060-086
Flex™ 100	1 gal.	Lipid Extraction, Dehydration, Solvent for Special Stains	Poly Bottle	8101	CA82017-788
Clear-Rite 3®	1 gal.	Lipid Extraction, Complete Deparaffinization and Clearing	Poly Bottle	6901	CA84000-052
Clear-Rite 3®	5 gal.	Lipid Extraction, Complete Deparaffinization and Clearing	Metal Pail	6905	CA84000-054
Clear-Rite 3®	55 gal.	Lipid Extraction, Complete Deparaffinization and Clearing	Poly Drum	6955	CA84000-056

Sustainability with VWR

At VWR, we recognize that being a good corporate citizen is in the best interest of our company, our customers, and our community. Therefore, we follow the three primary goals as defined by the United Nations for sustainability: Environmental Protection, Social Impact, and Economic Growth. For more information, visit ca.vwr.com/sustainability



Richard-Allan Scientific® Bluing Reagent, Thermo Scientific®

This ready-to-use reagent is specially formulated to prevent tissue separation from the slide, and is buffered to ensure proper alkalinity (pH = 8.0). It requires a one minute water rinse versus conventional bluing reagents that may require up to five minutes.

Size	Supplier No.	Cat. No.
3.8 L (1 gal.)	7301	CA41810-448

Shandon Disposable Blades and Blade Holders, Thermo Scientific

Disposable blades have a 34° facet angle and feature a superior edge profile in which the shape of the blade edge is optimized to provide excellent sectioning performance, easier ribbing, and improved sharpness.



HP-35 high-profile blades with PTFE coating (14011-014) are designed for routine applications with a high proportion of harder tissue and feature a blade coating that is optimized for increased durability and easier ribbing. HP-35n noncoated, economical high-profile blades (89022-204) are ideal for users accustomed to working with uncoated blades.

MB-35 Premier low-profile blades (14011-016) quickly reach optimal sectioning performance. They are designed for routine applications and feature consistent edge sharpness for high-quality thin sections and superior edge stability. MX-35 Premier low profile blades (89022-202) feature a durable long blade life with longer optimal sectioning performance and are suitable for all tissue types. MX-35 Premier+ low-profile blades (14011-013) feature a sharper edge with durable long blade life and provide improved performance for sectioning high-quality thin sections.

Description	Supplier No.	Cat. No.
MX-35 Premier+ Low-Profile Blades	3052835	CA14011-013

VWR COLLECTION

VWR® Three-Channel Alarm Timer with Triple Display

- Traceable®
- Adjustable Alarm Volume and Duration
- Memory Recall

Time three separate lab operations simultaneously. Unit also serves as a stopwatch and a time-of-day clock. Channels may be started individually or simultaneously. Program each channel from one second to 99 hours, 59 minutes, 59 seconds.



Adjustable alarm volume allows for use in either a noisy or quiet environment. Alarm may be set to silence automatically after one minute or to sound continuously until turned off. The LCD digits are 9.5mm (3/8") high and the display returns to the previously programmed time at the touch of a button. Quartz crystal accuracy is 0.001%. Rugged, chemical-resistant ABS plastic case.

A serial numbered certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA to indicate instrument traceability to standards provided by the National Institute of Standards and Technology.

Ordering Information: Supplied with a one-year, AAA alkaline battery.

H x W x D	Cat. No.
8.3 x 7.6 x 2.5 cm (3 1/4 x 3 x 1")	62344-600

VWR COLLECTION

VWR® Jumbo-Digit Alarm Timer

- Traceable®
- Two-Channel Display
- Large 2.5 cm (1") Digits
- Countdown Alarm, Stopwatch, and Time-of-Day Clock



Ideal for catching test results, signaling time intervals, and alerting appointments. Alarm timer features large, 2.5cm (1") digits for "across the room" readability. It simultaneously maintains two separate countdown timing channels with distinct alarms, stopwatch, and time-of-day options. Channels may be programmed individually or simultaneously. Count up or down from 23 hours, 59 minutes, 59 seconds. Alarm may be turned off manually or silences automatically after one minute. Just touch a button to return the display to the last programmed time for repeated testing applications.

A serial numbered certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA to indicate instrument traceability to standards provided by the National Institute of Standards and Technology.

Ordering Information: Supplied with a two-year AAA alkaline battery.

Description	Cat. No.
Black	61161-340

VWR COLLECTION

VWR® Large-Digit Triple-Display Timer

- Traceable®

Timer is the perfect reminder for signaling drying/incubating times, capturing test results, and alarming for appointments. Ideal for dedicating to tests that require several different times.



Three-line display permits simultaneous countdown alarm timing of three different tests. Extra-large 1.3cm (1/2") high display on each channel is easy to read from across the lab. Times may be set from 19 hours, 59 minutes, 59 seconds to 1 second. When zero is reached the timer starts counting up to show time elapsed since alarming. Additional features include stopwatch, time-out, and time-of-day. Magnetic back allows timer to be placed on any metal surface.

Three different countdown times may be set and then started simultaneously, or each channel may be started individually. For repetitive tests, the memory returns the display to the previously programmed countdown time at the touch of a button. Extra-loud, high-decibel alarm sounds for one minute or may be silenced manually.

A serial numbered certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA to indicate instrument traceability to standards provided by the National Institute of Standards and Technology.

Ordering Information: Supplied with a two-year, AAA alkaline battery.

H x W x D	Cat. No.
6.4 x 8.6 x 2.2 cm (2 1/2 x 3 3/8 x 7/8")	62344-588

VWR COLLECTION

**VWR® Traceable® Thermometer/
Clock/Humidity Monitor**

- Traceable®
- High/Low Temperature and Humidity Memory

Unit simultaneously displays ambient temperature, humidity, and time of day. Ideal for use in incubators, storerooms, drying chambers, hoods, cleanrooms, and environmental cabinets. Memory recalls highest and lowest temperature and humidity readings. Clock displays a.m./p.m. or 24-hour military time to the exact minute with 0.01% accuracy.

A serial numbered certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA to indicate instrument traceability to standards provided by the National Institute of Standards and Technology.

Ordering Information: Supplied with one-year AAA battery, built-in stand, and wall mount.



H x W x D	10.8 x 5.7 x 1.3 cm (4 1/4 x 2 1/4 x 1/2")
Humidity Accuracy	±4%
Humidity Resolution	1% RH
Temperature Accuracy	±1°C
Temperature Resolution	0.1°

Description	Range	Temperature Range	Cat. No.
Thermometer, 12/24 Hour Clock, and Humidity Monitor	20 to 90% RH	0 to 50°C	62344-734

VWR COLLECTION

**VWR® Temperature
Chart Recorders**

- Traceable®
- Tamper-Proof Seal
- Display °C and °F on the Same Chart

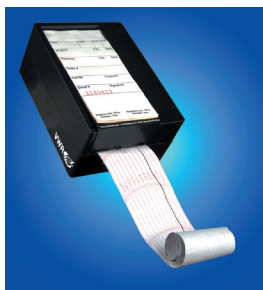
Temperature chart recorders are for monitoring refrigerators, supply rooms, food storage, chemical warehouses, animal quarters, incubators, goods-in-transit, walk-in chambers, biological materials, and manufacturing plants. Single-use, disposable recorders display temperatures for 5, 10, or 40 days on a 91cm (36") strip chart. A solid-state, battery-driven, quartz-crystal controlled motor turns the chart with an accuracy of better than ±1 second per day. The temperature sensor is bimetallic. Accuracy is ±1°C (2°F).

Charts are easy to read, duplicate, fax, scan, and file. They show temperature and time/day of occurrence. Charts, markers, and batteries are preloaded; simply pull a tab to begin recording.

Each recorder is factory calibrated. A tamper-evident seal maintains the integrity of the unit and results. A four-part form on the front allows space to note start time and pertinent information. Shock-resistant ABS case is 13.3x9.8x6.4cm (5 1/4x3 7/8x2 1/2").

A certificate is provided to indicate instrument traceability to standards provided by the National Institute of Standards and Technology.

Ordering Information: Supplied with AA alkaline battery.



Number of Days	Cat. No.
5	15551-006
10	15551-008
40	15551-010

**Replacement Parts for TRACK-IT™ Data
Logger, Monarch Instrument**

Description	Supplier No.	Cat. No.
3 ft USB 2.0 interface cable	5396-9901	89184-592
TRACK-IT™ software replacement CD	5396-9902	89184-594
Protective rubber sleeve	5396-9903	89184-596
Replacement Standard Battery: Coin cell lithium CR2032	5396-9904	89184-598
Replacement Long Life Battery: EF651625	5396-9905	89184-600

**TRACK-IT™ Relative Humidity
and Temperature Logger,
Monarch Instrument**

The RH/Temp Data Logger is a battery powered stand alone compact data logger that records up to 32,000 samples each of Relative Humidity and Temperature data. The unit is easily configured using the included Track-It™ Software. Simply plug the logger into an open USB port on your PC and the software automatically identifies the logger. Configure the unit to start and stop recording at a predetermined time and date or only when an alarm condition is sensed.

The sample storage rate can be set from 1 sample every 2 seconds to 1 sample every 24 hours. The on board data storage is non-volatile so data will not be lost in the event of a depleted battery. The Track-It™ RH/Temp Logger can be ordered with or without an LCD display.

Information displayed on the LCD is also user programmable and can be sequenced by pressing the logger button. Both models have a multicolored LED indicator to notify user of alarms or general activity. A splash proof protective cover protects the logger when in use.

CE marked.

Ordering Information: Interactive Software and splash proof protective cover included.

Description	Supplier No.	Cat. No.
TRACK-IT™ RH/Temp Logger with LCD display and standard battery, Calibrated	5396-0201-CAL	89409-784
TRACK-IT™ RH/Temp Logger with LCD display and long life battery, Calibrated	5396-0202-CAL	89409-786

Accessories		
Description	Supplier No.	Cat. No.
3 ft USB 2.0 interface cable	5396-9901	89184-592
TRACK-IT™ software replacement CD	5396-9902	89184-594
Protective rubber sleeve	5396-9903	89184-596
Replacement Standard Battery: Coin cell lithium CR2032	5396-9904	89184-598
Replacement Long Life Battery: EF651625	5396-9905	89184-600



**Set Up Your New Lab with
Support from VWR**

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ML Series Precision Balances, METTLER TOLEDO®

- Capacities from 220 g to 6200 g
- Brilliant Backlit Display
- Built-In RS-232 Interface
- Allowable AC and Battery Operation

NewClassic ML portable precision balances with external adjustment are ideal for routine weighing tasks. User programs include piece counting, percent weighing, calculation with a custom-free factor, dynamic weighing, statistics, and formulation. A brilliant backlit display permits numbers and symbols to be read easily and accurately, even under extreme lighting conditions. These units offer the reliable combination of precise results and a long service life.



METTLER TOLEDO® provides ISO 9001 manufacturing, nationwide ISO 90001/17025 service, and a one-year manufacturer's warranty. UL listed. CSA certified.

Ordering Information: The optional Gold and Silver calibration service packages are offered to assure continual reliability and maintain optimum balance performance. Gold service packages are suitable for many regulated and unregulated balance uses requiring documentation to support installation, including a NIST traceable calibration certificate. Silver service packages are suitable for many unregulated balance uses, requiring no significant documentation to support installation. Services for ML series balances must be performed in a repair center. Contact your VWR representative for package specifics.

Model	Capacity	Dimensions	Linearity	Pan Size	Readability	Repeatability (Std. Dev.)	Supplier No.	Cat. No.
ML601E	620 g	18.4W x 29L x 8.4H cm (7 ¹ / ₄ x 11 ⁷ / ₁₆ x 3 ⁵ / ₁₆ "	0.2 g	16 cm (6 ⁵ / ₁₆ " dia.	0.1 g	0.1 g	11143274	CA97035-680
ML802E	820 g	18.4W x 29L x 8.4H cm (7 ¹ / ₄ x 11 ⁷ / ₁₆ x 3 ⁵ / ₁₆ "	0.02 g	16 cm (6 ⁵ / ₁₆ " dia.	0.01 g	0.01 g	11145303	CA97035-672
ML3002E	3200 g	18.4W x 29L x 8.4H cm (7 ¹ / ₄ x 11 ⁷ / ₁₆ x 3 ⁵ / ₁₆ "	0.02 g	17 x 19 cm (6 ¹¹ / ₁₆ x 7 ¹ / ₂ "	0.01 g	0.01 g	11145327	CA97035-676
ML4002E	4200 g	18.4W x 29L x 8.4H cm (7 ¹ / ₄ x 11 ⁷ / ₁₆ x 3 ⁵ / ₁₆ "	0.02 g	17 x 19 cm (6 ¹¹ / ₁₆ x 7 ¹ / ₂ "	0.01 g	0.01 g	11145333	CA97035-678
ML6001E	6200 g	18.4W x 29L x 8.4H cm (7 ¹ / ₄ x 11 ⁷ / ₁₆ x 3 ⁵ / ₁₆ "	0.2 g	16 cm (6 ⁵ / ₁₆ " dia.	0.1 g	0.1 g	11145369	CA97035-686

Discovery Semi-Micro and Analytical Balances, Ohaus®

The Discovery series balances offer four models that combine excellent performance with unique features ideal for university and pharmaceutical research, drug discovery, and general lab applications. The glass and steel construction resists the effects of static and corrosion, increasing balance stability and accuracy, and ensuring a long service life. Additional features such as SmarText™ software, which utilizes text prompts to guide users through use and setup, and Advanced AutoCal™ automatic internal calibration further contribute to the Discovery balances' high performance, reliability, and ease of use.

The Discovery balances' application modes include statistical programming, four methods of density determination, pipette calibration, percent weighing, parts counting, check weighing, animal/dynamic weighing, totalization, and high point weighing. Other standard features include a stability indicator, mechanical and software overload/underload protection, selectable span calibration points, auto tare, auto shut off, and software reset and lockout menus. Units are also equipped with user selectable printing options, communications settings, and data print options.



Discovery balance models feature a two-line alphanumeric backlit LCD. The four-button keypad has dedicated Yes, No, Back, and Exit functions to simplify navigation and setup. Left and right Tare buttons allow for ambidextrous taring. Density determination and specific gravity calculation are made possible by an integral weigh-below hook. An up-front level indicator ensures a level balance at a glance. The stainless steel weighing platform and wind ring are removable for simple cleanup procedures. Model 11377-672 offers FineRange capabilities. All models are equipped with a RS-232 interface.

UL and C-UL listed. CSA certified and CE marked.

Ordering Information: Supplied with an AC adapter and manufacturer's two-year warranty.

Clearance above Pan	24 cm (9 ¹ / ₂ "
Electrical	100–120V, 50/60Hz, 220–240V, 50/60Hz
Operating Temperature	10 to 40°C (50 to 104°F)
Overall Dimensions	20W x 30H x 45.7D cm (7 ⁷ / ₈ x 11 ¹³ / ₁₆ x 18")
Sensitivity Drift	±2ppm/°C (10 to 30°C)
Weight	10.2 kg (22.5 lbs.)

Capacity	Linearity	Pan Size	Readability	Repeatability (Std. Dev.)	Stabilization Time	Supplier No.	Cat. No.
110 g	±0.2 mg	9 cm (3 ¹ / ₂ " dia.	0.1 mg	0.1 mg	4 s	80104136	11377-668
210/81 g	±0.2/0.03 mg	9 cm (3 ¹ / ₂ " dia.	0.1/0.01 mg	0.1/0.02 mg	5/12 s	80104139	11377-672
310 g	±0.5 mg	9 cm (3 ¹ / ₂ " dia.	0.1 mg	0.2 mg	8 s	80104138	11377-674

Comprehensive Selection of Products

To offer our customers the best possible selection of products, VWR maintains strategic alliances with thousands of manufacturers. We offer the industry's widest, most objective range of cost-efficient products with the best support, and introduce thousands of new products every year to fulfill innovative requests. To order, call 1.800.932.5000 or visit ca.vwr.com.



Pioneer™ Series Analytical and Precision Balances, Ohaus®

Pioneer™ precision and analytical balances are ideal for routine weighing in laboratory, industrial, and educational applications. Designed to provide uncomplicated performance, balances are equipped with selectable environmental settings to ensure that procedures are not interrupted when working in harsh environmental conditions. Balances can be adjusted to compensate for vibrations and other disturbances, or can be adjusted to perform in slow filling applications where sensitivity is a must.

An upfront level indicator eliminates the need to refer to hidden or inconvenient indicators during the leveling process. Balances offer multiple application modes, such as basic weighing, parts counting, and percent weighing, as well as up to 19 weighing units including one custom unit. A built-in weigh-below hook allows users to suspend items below the balance to calculate density/specific gravity. An integral security bracket enables balances to be secured to a workstation to prevent movement or theft.

Additional standard features include user selectable span calibration points, software reset menu, stability indicator, auto tare, user selectable communications settings and printing options, a stainless steel weighing platform, RS232 interface, and AC adapter.

Ordering Information: Balances **97004-582**, **-584**, **-586**, **-588**, and **-590** are supplied with a 19.5Hcm (7¹¹/₁₆") draftshield with stainless steel floor, all glass panels, and three sliding doors. All panels are easy to remove, clean, and replace.



Operating Temperature	-10 to 40°C (14 to 104°F)
Stabilization Time	3 Seconds
Taring Time	1 Second

Description	Capacity	Dimensions	Linearity	Pan Size	Readability	Repeatability (Std. Dev.)	Shipping Weight	Supplier No.	Cat. No.
Analytical Balance	65 g	19.6W x 28.7H x 32D cm (7 ²³ / ₃₂ x 11 ⁵ / ₁₆ x 12 ¹ / ₂ ")	0.2 mg	9 cm (3 ¹ / ₂ ") dia.	0.1 mg	0.1 mg	6.9 kg (15.2 lbs.)	80251550	97004-582
Analytical Balance	110 g	19.6W x 28.7H x 32D cm (7 ²³ / ₃₂ x 11 ⁵ / ₁₆ x 12 ¹ / ₂ ")	0.2 mg	9 cm (3 ¹ / ₂ ") dia.	0.1 mg	0.1 mg	6.9 kg (15.2 lbs.)	80251551	97004-584
Analytical Balance	210 g	19.6W x 28.7H x 32D cm (7 ²³ / ₃₂ x 11 ⁵ / ₁₆ x 12 ¹ / ₂ ")	0.3 mg	9 cm (3 ¹ / ₂ ") dia.	0.1 mg	0.1 mg	6.9 kg (15.2 lbs.)	80251552	97004-586
Precision Balance	150 g	19.6W x 28.7H x 32D cm (7 ²³ / ₃₂ x 11 ⁵ / ₁₆ x 12 ¹ / ₂ ")	2 mg	12 cm (4 ³ / ₄ ") dia.	0.001 g	1 mg	6.9 kg (15.2 lbs.)	80251562	97004-588
Precision Balance	310 g	19.6W x 28.7H x 32D cm (7 ²³ / ₃₂ x 11 ⁵ / ₁₆ x 12 ¹ / ₂ ")	2 mg	12 cm (4 ³ / ₄ ") dia.	0.001 g	1 mg	6.9 kg (15.2 lbs.)	80251621	97004-590

Excellence Plus Level, XP Series Precision Balances, METTLER TOLEDO®

- Capacities from 210 to 64,100 g
- Readabilities from 0.001 to 1 g
- Features proFACT® Fully Automatic Calibration Technology
- Meet All GLP and ISO 9001 Statistical Requirements

Balances are available with several different platform sizes. Fully automatic internal calibration (proFACT®) comes with history function, initiated by time and/or ambient temperature change by 1.5°C (2.7°F). Model 11277-128 features DeltaRange® capabilities, which deliver 10 times the readability anywhere within the balance range just by taring. Operating menu can be viewed in English, German, French, Spanish, Italian, Russian, and Japanese. All models can download software, display various units of weight, tare over entire weighing range, display statistics with ± and % display, count with reference optimization, perform formula weighing with security protection, calculate with factors, manage users with password protection, store a history of setting changes, schedule balance checks, and monitor for allowable minimum weight.

All models feature a stainless steel platform, a color display with touch screen operation, sensors for hands-free operation, and feedthrough for below-the-balance weighing. Peripherals can be connected via the built-in RS-232 interface or an optional second interface (purchased separately). The following interfaces are available: Bluetooth® (wireless), Ethernet, PS/2, USB, LocalCAN™, or MiniMettler. For operation from 5 to 40°C (41 to 104°F) and between 25% and 80% relative humidity. Electrical: 110/230V, 50/60Hz, 0.8A. METTLER TOLEDO® provides ISO 9001 manufacturing, nationwide ISO 9001 field service, ISO 9001 quality certification, and ISO 14001 environmental certification.

Ordering Information: All models are supplied with manufacturer's one-year warranty, production certificate for equipment qualification, power supply with AC/DC adapter, country-specific power cable, and weighing adapter for optimum adaptation to ambient conditions. Models with readability of 0.001g include a 17.5cm (6⁷/₈") high draft shield. Models with readability of 0.01g or 0.1g include spring-loaded stabilizing feet and a 19.4Wx22.6Dx4Hcm (7⁵/₈x8⁷/₈x1¹/₂") chrome steel draft ring. For a Bluetooth wireless printer, see **11277-670** series. Calibration service packages help maintain the performance of your balance. The Gold package provides documentation to support installation in many regulated and unregulated environments; the Platinum package provides significant documentation to support installation and qualification in regulated environments. Both include an NIST traceable calibration certificate. Contact your VWR representative for package specifics.



Capacity	Linearity	Pan Size	Readability	Repeatability (Std. Dev.)	Stabilization Time	Supplier No.	Cat. No.
1210 g	0.02 g	17 x 20.3 cm (6 ¹¹ / ₁₆ x 8")	0.01 g	0.008 g	1.2 s	11130070	CA11277-122
4100 g	0.02 g	17 x 20.3 cm (6 ¹¹ / ₁₆ x 8")	0.01 g	0.008 g	1.2 s	11130102	CA11277-124
8100 g	0.02 g	17 x 20.3 cm (6 ¹¹ / ₁₆ x 8")	0.01 g	0.008 g	1.5 s	11130201	CA11277-130
210 g	0.002 g	12.7 x 12.7 cm (5 x 5")	0.001 g	0.0008 g	1.5 s	11130022	CA11277-136
610 g	0.002 g	12.7 x 12.7 cm (5 x 5")	0.001 g	0.0008 g	1.5 s	11130020	CA11277-138

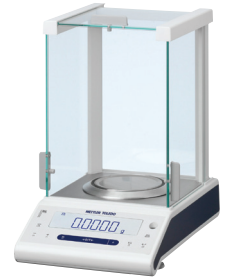
Accessories		
Description	Supplier No.	Cat. No.
Anti-Theft Cable with Lock	11600361	CA11276-946
Protective In-Use Cover	11132570	CA89042-480

ML Series Analytical Balances, METTLER TOLEDO®

- Capacities from 52 g to 220 g
- Equipped with MonoBloc Weigh Cell and Internal Adjustment
- Built-In RS-232 Interface
- Allowable AC and Battery Operation

NewClassic ML portable balances are ideal for routine weighing tasks. User programs include adjustment with internal weight, piece counting, percent weighing, calculation with a custom-free factor, dynamic weighing, statistics, and formulation. A brilliant backlit display permits numbers and symbols to be read easily and accurately, even under extreme lighting conditions. All balances are equipped with the established, high-performance MonoBloc weighing cell. These units offer the reliable combination of precise results and a long service life.

METTLER TOLEDO® provides ISO 9001 manufacturing, nationwide ISO 90001/17025 service, and a one-year manufacturer's warranty. UL listed. CSA certified.



Ordering Information: The optional Gold and Silver calibration service packages are offered to assure continual reliability and maintain optimum balance performance. Gold service packages are suitable for many regulated and unregulated balance uses requiring documentation to support installation, including a NIST traceable calibration certificate. Silver service packages are suitable for many unregulated balance uses, requiring no significant documentation to support installation. Services for ML series balances must be performed in a repair center. Contact your VWR representative for package specifics.

Capacity	Linearity	Pan Size	Readability	Repeatability (Std. Dev.)	Supplier No.	Cat. No.
120 g	0.2 mg	9 cm (3 1/2") dia.	0.1 mg	0.1 mg	11145216	CA97035-664
220 g	0.2 mg	9 cm (3 1/2") dia.	0.1 mg	0.1 mg	11145222	CA97035-666

Valor™ 3000 Xtreme Compact Scales, Ohaus®

Valor™ scales combine high performance, ease of use, and portability into a rugged, full stainless steel design capable of operating in dry or wet applications. The compact and durable housing also offers chemical resistance and a removable weighing pan for simple cleaning. The advanced overload protection is rated at 10x capacity for demanding procedures, and units offer resolutions up to 20,000d for precise and repeatable measuring results. The intuitive user interface utilizes a bright backlit LCD and simple text prompts to guide users through setup and operation. Washdown versions ensure that the Valor™ 3000 Xtreme models will meet the needs of the most demanding environments.



Standard features include software specifically designed for simple use and maximum throughput. Application modes include percentage weighing, specific gravity determination, and combined zero/tare, with results available in lb., decimal or fractional oz., lb.:oz., fluid oz., kg, or g units. Adjustable feet prevent slippage on wet or uneven surfaces, and can be set according to a front panel leveling indicator. An included AC adapter provides continuous power, and units will also run up to 100hrs. with four C-type batteries.

All Valor™ 3000 Xtreme models are USDA-AMS accepted, NSF certified/listed, and will support a HACCP certified system.

Operating Temperature	0 to 40°C (32 to 104°F)
Overall Dimensions	21.8L x 18.6W x 7.7H cm (8 1/2 x 7 11/32 x 3")
Stabilization Time	≤3 seconds

Description	Capacity	Pan Size	Readability	Shipping Weight	Supplier No.	Cat. No.
Non-Washdown Scale	0.2 kg (0.44 lbs.)	12 cm (4 3/4") dia.	0.00001 kg (0.00005 lbs.)	2 kg (4.4 lbs.)	83998130	97000-868
Non-Washdown Scale	2 kg (4.4 lbs.)	14.6L x 15.8W cm (5 3/4 x 6 1/4")	0.0001 kg (0.0002 lbs.)	2.1 kg (4.6 lbs.)	83998131	97000-870
Non-Washdown Scale	3 kg (6.6 lbs.)	14.6L x 15.8W cm (5 3/4 x 6 1/4")	0.001 kg (0.005 lbs.)	2.1 kg (4.6 lbs.)	83998132	97000-872
Non-Washdown Scale	6 kg (13 lbs.)	14.6L x 15.8W cm (5 3/4 x 6 1/4")	0.001 kg (0.005 lbs.)	2.1 kg (4.6 lbs.)	83998133	97000-874
IP-65/NEMA 4X Washdown Scale	3 kg (6.6 lbs.)	14.6L x 15.8W cm (5 3/4 x 6 1/4")	0.0005 kg (0.001 lbs.)	2.2 kg (4.8 lbs.)	83998135	97000-876
IP-65/NEMA 4X Washdown Scale	6 kg (13 lbs.)	14.6L x 15.8W cm (5 3/4 x 6 1/4")	0.001 kg (0.005 lbs.)	2.2 kg (4.8 lbs.)	83998136	97000-878
IP-65/NEMA 4X Washdown Scale	0.3 kg (0.66 lbs.)	14.6L x 15.8W cm (5 3/4 x 6 1/4")	0.0001 kg (0.0002 lbs.)	2.2 kg (4.8 lbs.)	83998134	97000-880

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Food Portioning Scales, FD Series, Ohaus®

Scales are ideal for food portioning and checkweighing. Scales are designed for use in restaurants, bakeries, food manufacturing, and other applications requiring flexible and quick operation. Scales feature large rubber pan supports; dishwasher-safe, stainless steel weighing pans; and all-stainless steel housings for sanitary cleaning and durability. A 120-hour internal rechargeable battery allows for easy portability. Large, backlit LCD displays in pounds up to three decimal places, as well as fractional or decimal ounces. With the push of a button, weight may also be displayed in a lb./oz. format, or for metric use, scale can display results in kilograms or grams. Mode and weighing units can be locked-in using either software or hardware locks. Software menu allows the user to recalibrate the scale using either span (two-point) or linear (three-point) calibration. Software and hardware lockouts can be used to prevent accidental recalibration.

The scales can be set to act as a dedicated, low profile checkweighers for food portioning and grading. For portioning and prepackaging, the positive checkweighing mode can be used; the negative checkweighing mode can be used for portioning out of the box. The zero checkweighing mode is designed for sorting and grading operations, allowing the user to check portions against preset limits. Target weights can be quickly entered using the dedicated setpoint key. Progress toward weight targets is indicated with three LEDs (over, acceptable, and under) and a selectable audible buzzer.

Meets protection class IP 43. UL and C-UL listed. Scales are NSF certified, USDA-AMS accepted, and HACCP compliant. EC/OIML Type approved. Foot tare switch is legal for trade.



Electrical	100–120V, 50/60Hz
Operating Temperature	–10 to 40°C (14 to 104°F)
Overall Dimensions	30W x 22.3H x 7.1D cm (11 ¹³ / ₁₆ x 8 ³ / ₄ x 2 ³ / ₄ "
Shipping Weight	5 kg (11 lbs.)
Stabilization Time	<2 seconds
Tare Range	Full capacity by subtraction

Description	Capacity	Linearity	Pan Size	Readability	Supplier No.	Cat. No.
Model FD3, with Legal-For-Trade Software	3 kg (6.6 lbs.)	0.5 g (0.02 oz.)	20.9 x 20.9 cm (8 ¹ / ₄ x 8 ¹ / ₄ "	0.0005 kg (0.001 lbs.)	83998117	87004-208
Model FD6, with Legal-For-Trade Software	6 kg (13 lbs.)	1 g (0.04 oz.)	20.9 x 20.9 cm (8 ¹ / ₄ x 8 ¹ / ₄ "	0.001 kg (0.002 lbs.)	83998118	87004-210
Model FD15, with Legal-For-Trade Software	13.6 kg (30 lbs.)	2 g (0.07 oz.)	20.9 x 20.9 cm (8 ¹ / ₄ x 8 ¹ / ₄ "	0.005 kg (0.01 lbs.)	83998119	87004-212
Model FD3H, without Legal-For-Trade Software	3 kg (6.6 lbs.)	0.2 g (0.007 oz.)	20.9 x 20.9 cm (8 ¹ / ₄ x 8 ¹ / ₄ "	0.0001 kg (0.0002 lbs.)	83998147	97006-574
Model FD6H, without Legal-For-Trade Software	6 kg (13 lbs.)	0.4 g (0.014 oz.)	20.9 x 20.9 cm (8 ¹ / ₄ x 8 ¹ / ₄ "	0.0002 kg (0.001 lbs.)	83998148	97006-576

Accessories			
Description	Supplier No.		Cat. No.
Foot Tare Switch	71169633		87004-214

VWR® COLLECTION

VWR® Disposable Antistatic Polystyrene Pour Boats

Strong, smooth polystyrene pour boats feature a single spout to facilitate dispensing. Vessels are manufactured with an antistat treatment embedded into the plastic. This long-lasting treatment will not rub off or dissipate over time, making the boats suitable for use with static-affected materials. Stable and flat bottoms allow for easy stacking and convenient storage.



Capacity	L x W x D	Cat. No.
20 mL (0.7 oz.)	6 x 4.1 x 0.8 cm (2 ³ / ₈ x 1 ⁵ / ₈ x 5 ¹ / ₁₆ "	89106-760
140 mL (4.7 oz.)	13.3 x 7.6 x 2.5 cm (5 ³ / ₄ x 3 ¹ / ₂ x 1"	89106-758
270 mL (9.1 oz.)	19.7 x 12.1 x 2.5 cm (7 ³ / ₄ x 4 ³ / ₄ x 1"	89106-762

VWR® COLLECTION

VWR® Weighing Paper

For analytical weighing. Smooth surface is ideal for transferring weighed material. Clean, dust-free sheets. Paper is lightweight, yet strong enough to support analytical size samples. Nitrogen-free.

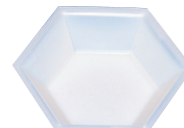
Dimensions	Cat. No.
7.6 x 7.6 cm (3 x 3")	12578-121
10.2 x 10.2 cm (4 x 4")	12578-165
15.2 x 15.2 cm (6 x 6")	12578-201





VWR® Hexagonal Antistatic Polystyrene Weighing Dishes

A molded hexagonal design and the flexibility of polystyrene provide optimal balance protection and safety. Polystyrene dishes are ideal for handling solids or liquids during weighing procedures. Easily bent into pouring spouts, dishes facilitate sample transfer and reduce the risk of spills. The superior manufacturing process embeds the antistat into the plastic, making the dishes nonreactive with most substances and suitable for weighing static-affected samples. Flat bottoms and sloping sides allow these disposable dishes to be easily stacked and conveniently stored.



Capacity	Base I.D.	Top I.D.	Cat. No.
20 mL (0.7 oz.)	2.5 cm (1")	3.8 cm (1½")	89106-750
50 mL (1.7 oz.)	5.1 cm (2")	6.4 cm (2½")	89106-752
200 mL (6.8 oz.)	7.6 cm (3")	10.2 cm (4")	89106-754
350 mL (11.8 oz.)	8.9 cm (3½")	12.7 cm (5")	89106-756

PURELAB® Prima 7/15/30 Reverse Osmosis Water Purification Systems, ELGA LabWater

The PURELAB® Prima series systems are ideal for feeding ultra-pure water systems and for a wide range of laboratory applications including glassware washing, autoclave feed and for use in Environmental Cabinets. Units produce up to 7, 15, or 30L/hr of purified water.



Description	Water Quality	Dispense Rate	Make Up Flow Rate	Supplier No.	Cat. No.
PURELAB® PRIMA 7 System	Type III	From Reservoir	7.5 LPH (180 L/day)	PR007XXM1	CA89203-956
PURELAB® PRIMA 7 System with Validation	Type III	From Reservoir	7.5 LPH (180 L/day)	PR007XXM1/V	CA89203-958
PURELAB® PRIMA 7 System with Booster Pump	Type III	From Reservoir	7.5 LPH (180 L/day)	PR007BPM1	CA89203-960
PURELAB® PRIMA 7 System with Booster Pump and Validation	Type III	From Reservoir	7.5 LPH (180 L/day)	PR007BPM1/V	CA89203-962
PURELAB® PRIMA 15 System	Type III	From Reservoir	15 LPH (360 L/day)	PR015XXM1	CA89203-964
PURELAB® PRIMA 15 System with Validation	Type III	From Reservoir	15 LPH (360 L/day)	PR015XXM1/V	CA89203-966
PURELAB® PRIMA 15 System with Booster Pump	Type III	From Reservoir	15 LPH (360 L/day)	PR015BPM1	CA89203-968
PURELAB® PRIMA 15 System with Booster Pump and Validation	Type III	From Reservoir	15 LPH (360 L/day)	PR015BPM1/V	CA89203-970
PURELAB® PRIMA 30 System	Type III	From Reservoir	30 LPH (720 L/day)	PR030XXM1	CA89203-972
PURELAB® PRIMA 30 System with Validation	Type III	From Reservoir	30 LPH (720 L/day)	PR030XXM1/V	CA89203-974
PURELAB® PRIMA 30 System with Booster Pump	Type III	From Reservoir	30 LPH (720 L/day)	PR030BPM1	CA89203-976
PURELAB® PRIMA 30 System with Booster Pump and Validation	Type III	From Reservoir	30 LPH (720 L/day)	PR030BPM1/V	CA89203-978

Accessories

Description	Supplier No.	Cat. No.
Stand-alone storage reservoir - 25L	LA611	CA89204-178
Stand-alone storage reservoir - 40L	LA612	CA89204-182
Stand-alone storage reservoir - 75L	LA613	CA89204-186
DV35 Docking Tank	LA620	CA89204-194
Reservoir Wall Mounting Kit - 25L, 35L, 40L	LA591	CA89204-200
Reservoir Wall Mounting Kit - 75L	LA592	CA89204-202
Printer Kit	LA618	CA89204-206
Feedwater Pressure Regulator	LA512	CA89204-218
Remote Control Prima	LA628	CA89204-232
RO membranes	LC143	CA89204-284
Pretreatment cartridge - removes particulates and chlorine	LC140	CA89204-302
Pretreatment cartridge -Removes free chlorine and particles	LC123	CA89204-310
Hydrophobic Microporous Composite Vent Filter	LC136M2	CA89204-342
Pack of 12 Disinfection Tablets	CT1	CA89204-426
10" 5 Micron Filter Cartridge	FILT50009	CA89204-446
10" 10 Micron Filter Cartridge	FILT50011	CA89204-448
10" FILTER HOUSING	LA518	CA89204-450

PURELAB® Option S7 and S15 Water Systems, ELGA LabWater

The PURELAB® Option-S 15 provides pure water on demand for non critical applications. This unit produces up to 15 l/hr of purified water. An alternative to distillation, these water purifiers are designed to produce high purity water direct from a potable water supply. All purifiers utilize pretreatment, reverse osmosis, and ion exchange.

S-series purifiers include a microprocessor-controlled quality monitoring system, front-entry service doors, cartridge change indicator, adjustable audio-visual alarms, data collection capabilities through RS-232 interface, a long-life integral prefilter, a high-flux reverse osmosis membrane, and a unique high-capacity purification cartridge pack.

UL and C-UL listed. CSA certified. CE marked.



Description	Water Quality	Dispense Rate	Make Up Flow Rate	Supplier No.	Cat. No.
PURELAB® OPTION S7 System	Type II	From Reservoir	7.5 LPH (180 L/day)	OS007XXM1	CA89203-980
PURELAB® OPTION S7 System with Validation	Type II	From Reservoir	7.5 LPH (180 L/day)	OS007XXM1/V	CA89203-982
PURELAB® OPTION S7 System with Booster Pump	Type II	From Reservoir	7.5 LPH (180 L/day)	OS007BPM1	CA89203-984
PURELAB® OPTION S7 System with Booster Pump and Validation	Type II	From Reservoir	7.5 LPH (180 L/day)	OS007BPM1/V	CA89203-986
PURELAB® OPTION S15 System	Type II	From Reservoir	15 LPH (360 L/day)	OS015XXM1	CA89203-988
PURELAB® OPTION S15 System with Validation	Type II	From Reservoir	15 LPH (360 L/day)	OS015XXM1/V	CA89203-990
PURELAB® OPTION S15 System with Booster Pump	Type II	From Reservoir	15 LPH (360 L/day)	OS015BPM1	CA89203-992
PURELAB® OPTION S15 System with Booster Pump and Validation	Type II	From Reservoir	15 LPH (360 L/day)	OS015BPM1/V	CA89203-994

Accessories		
Description	Supplier No.	Cat. No.
Stand-alone storage reservoir - 25L	LA611	CA89204-178
Stand-alone storage reservoir - 40L	LA612	CA89204-182
Stand-alone storage reservoir - 75L	LA613	CA89204-186
DV35 Docking Tank	LA620	CA89204-194
Reservoir Wall Mounting Kit - 25L, 35L, 40L	LA591	CA89204-200
Reservoir Wall Mounting Kit - 75L	LA592	CA89204-202
Printer Kit	LA618	CA89204-206
Feedwater Pressure Regulator	LA512	CA89204-218
RO membranes	LC143	CA89204-284
Pretreatment cartridge - removes particulates and chlorine	LC140	CA89204-302
Twin Pack Cartridge	LC141	CA89204-308
Pretreatment cartridge -Removes free chlorine and particles	LC123	CA89204-310
Hydrophobic Microporous Composite Vent Filter	LC136M2	CA89204-342
10" 5 Micron Filter Cartridge	FILT50009	CA89204-446
10" 10 Micron Filter Cartridge	FILT50011	CA89204-448
10" FILTER HOUSING	LA518	CA89204-450

PURELAB® flex 1 and 2 Water Systems, ELGA LabWater

The PURELAB flex is uniquely designed around your needs. It combines ease of use with the accurate delivery of pure water. The flexible modular system can be configured to deliver the quality of water you need for your applications. Ergonomic handset shows your essential water purity information. Intelligent Real Time TOC monitoring. Unique choice of water dispense options

The PURELAB® flex 1 uniquely combines ease of use with the accurate delivery of pure water. The flexible modular system can be configured to deliver the quality of water you need for your applications. 18.2 megohm with optional DI Purification.

The PURELAB® flex 2 uniquely combines ease of use with the accurate delivery of pure water. The flexible modular system can be configured to deliver the quality of water you need for your applications and includes UV photo-oxidation and TOC monitoring. 18.2 megohm with optional DI Purification. TOC <5 ppb, RNase <0.002 ng/ml, Dnase <20 pg/ml, and Endotoxins <0.001 EU/ml with optional Biofilter.

UL approved. C-UL approved. CSA approved. CE marked.

Ordering Information: Additional accessories are available; contact your VWR representative for more information.



Description	Water Quality	Supplier No.	Cat. No.
PURELAB® flex 1 System	Type I/Type II*	PF1XXXXM1	CA89204-088
PURELAB® flex 1 System, System Validated	Type I/Type II*	PF1XXXXM1/V	CA89204-090
PURELAB® flex 2 System	Type I	PF2XXXXM1	CA89204-092
PURELAB® flex 2 System, System Validated	Type I	PF2XXXXM1/V	CA89204-094
PURELAB® flex 1 System, Includes Start Up Kit	Type I/Type II*	PF1XXXXM1-KIT	CA89221-838
PURELAB® flex 2 System, Includes Start Up Kit	Type I	PF2XXXXM1-KIT	CA89221-840
PURELAB® flex 1 System, Includes Start Up Kit, System Validated	Type I/Type II*	PF1XXXXM1KIT/V	CA89221-848
PURELAB® flex 2 System, Includes Start Up Kit, System Validated	Type I	PF2XXXXM1KIT/V	CA89221-852

Accessories		
Description	Supplier No.	Cat. No.
By-Pass Pack	LA728	CA89204-238
Pre-Conditioning Cartridge	LC211	CA89204-402

Advanced® Micro-Osmometer, Model 3320, Advanced Instruments

Determines the osmolality of solutions using freezing point depression (FPD). Ideal for serum, urine, or other bodily fluids in clinical applications, and media or formulations in pharmaceutical, biotech, or industrial applications.

Automated, single-sample instrument is designed to process a sample with a one-minute test time. Features ease-of-use, internal diagnostics, automated calibration, on-board statistical analysis, and an ergonomic and compact design. Recalls up to the last 30 test results. Multi-language operation. Password lock-out.

CE marked. ETL listed.

Ordering Information: One-year limited manufacturer's warranty on workmanship and all parts except glass, plastic, and parts warranted by their makers. For additional calibration standards, reference and control solutions, or accessories, contact your VWR representative.



Dimensions	35.5H x 35.5W x 38.1D cm (14 x 14 x 15")
Drift	<1 mOsm/kg H ₂ O per month (at reference conditions)
Electrical	100–240V, 50–60Hz, 60W
Humidity Range	5–80% relative humidity (non-condensing)
Linearity	<±1% from a straight line over calibrated range (at reference conditions)
Operating Temperature Range	18 to 35°C (64 to 95°F)
Repeatability	0–400 mOsm: ±2 mOsm/kg (1 S.D.); 400–2000 mOsm: ±0.5% (1 S.D.) (at reference conditions)
Sample Volume	20 µL
Start delay	30 sec. from power-on
Test Time	60 sec.
Weight	11.4 kg (25 lbs.) shipping, 6.1 kg (13.4 lbs.) net

Description	Supplier No.	Cat. No.
Micro-Osmometer	3320	CA80090-640

Accessories		
Description	Supplier No.	Cat. No.
Sample Tips and Chamber Cleaners, Box of 500	3MA800	52196-122
850 mOsm Calibration Standard, 2 mL	3MA085	52196-128
Sampler Plunger Wire	3M0828	52197-456
Osmolality Linearity Set, 5 Level, 10 x 5 mL	3LA028	52198-164
50 mOsm Calibration Standard, 2 mL	3MA005	CA52196-124
Clinitrol™ 290 Reference Solution, 2 mL	3MA029	CA52196-126
Protinol® Osmometer Serum Control Kit, 3 Level, 9 x 3 mL	3MA028	CA52196-130

Filters, Cartridges, and Replacement Parts for Reverse Osmosis System, ELGA LabWater



Description	Supplier No.	Cat. No.
Stand-alone storage reservoir - 25L	LA611	CA89204-178
Stand-alone storage reservoir - 40L	LA612	CA89204-182
Stand-alone storage reservoir - 75L	LA613	CA89204-186
DV35 Docking Tank	LA620	CA89204-194
Reservoir Wall Mounting Kit - 25L, 35L, 40L	LA591	CA89204-200
Reservoir Wall Mounting Kit - 75L	LA592	CA89204-202
PURELAB Flex Wall Mounting Kit	LA735	CA89204-204
Printer Kit	LA618	CA89204-206
Feedwater Pressure Regulator	LA512	CA89204-218
Inlet Pressure Regulator Valve	LA652	CA89204-220
Remote Control Prima	LA628	CA89204-232
PURELAB Flex Foot SW	LA732	CA89204-242
RO membranes	LC143	CA89204-284
Pretreatment cartridge - removes particulates and chlorine	LC140	CA89204-302
Point of Use Filter	LC145	CA89204-304
Twin Pack Cartridge	LC141	CA89204-308
Pretreatment cartridge -Removes free chlorine and particles	LC123	CA89204-310
Hydrophobic Microporous Composite Vent Filter	LC136M2	CA89204-342
Flex 1/2 Puridication Pack	LC208	CA89204-392
Flex Sanitization Pack	LC209	CA89204-394
Point of Use Biofilter	LC197	CA89204-398

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Description	Supplier No.	Cat. No.
UV Lamp - Flex 2	LC210	CA89204-400
Pack of 12 Disinfection Tablets	CT1	CA89204-426
10" 5 Micron Filter Cartridge	FILT50009	CA89204-446
10" 10 Micron Filter Cartridge	FILT50011	CA89204-448
10" FILTER HOUSING	LA518	CA89204-450

VWR COLLECTION

VWR® Aerosol Duster

- Consists of air compressor in a can filled with a pure, noncorrosive, nonflammable, odorless, dry gas
- Gas is triple-filtered to 0.3µm to eliminate moisture and all contaminants
- Blows lint, dust, and dirt away instantly with 71psi of high pressure, leaving zero residue
- 12.7cm (5") nonconductive polyethylene snorkel delivers 3000 pinpoint jets of air
- Trigger actuator valve provides a controlled delivery
- Duster contains an EPA-designated substitute for ozone-depleting HFCs and CFCs



Duster is ideal for cleaning optical lenses, balance parts, microscope slides, relay contacts, spectrophotometer cells, photographic slides, circuit boards, syringes, micropipets, and flame atomizers.

Portable duster consists of air compressor in a can filled with 312g (11oz.) of a pure, noncorrosive, nonflammable, odorless, dry gas that is triple-filtered to 0.3µm to eliminate moisture and all contaminants. Blows lint, dust, and dirt away instantly with 71psi of high pressure, leaving zero residue. The duster features a 12.7cm (5") nonconductive polyethylene snorkel to deliver 3000 pinpoint jets of air. A trigger actuator valve provides a controlled delivery.

Duster contains an EPA-designated substitute for ozone-depleting HFCs and CFCs.

Description	Cat. No.
Aerosol Duster	16650-027

Parafilm M

Flexible, thermoplastic, rolled, waterproof sheet interwound with paper to prevent adhering. Semi-transparent, almost colorless, odorless, and tasteless. Supplied in 0.127mm (0.005") thickness. Adheres quickly and firmly to itself, covering culture tube or flask mouths and sealing petri dish edges. Excellent resistance to air, other gases, alcohol, common acids, and moderately concentrated alkalis. At 21°C (70°F), it stretches 200% and returns partially to its original size. At 82 to 93°C (180 to 200°F), it softens enough to make an adhesive bond between papers, cloths, leathers, etc. Supplied in dispenser cartons.



Roll Size	Supplier No.	Cat. No.
10.2 cm x 38.1 m (4" x 125')	PM996	52858-000
10.2 cm x 76.2 m (4" x 250')	PM999	52858-032
5.1 cm x 76.2 m (2" x 250')	PM992	52858-076
50.8 cm x 15.2 m (20" x 50')	PM998	52859-079

Nonsterile and Sterileware® Sampling Spatulas, Bel-Art

These V-shaped spatulas are ideal for every type of powdered or granulated material. The sturdy point is perfect for taking sterile samples during process quality inspections and for piercing plastic-lined paper bags or similar packages. Time-honored V-shape makes transferring powdered, flaked, crystalline or granular media a breeze.



Long 14" spatula is perfect for dislodging caked or crystallized reagents from deep within tall bottles or vessels having a neck diameter as small as 18mm (3/4").

These one piece spatulas are molded from FDA-grade materials and are safe for food, drug and cosmetic contact.

Sterileware® Spatulas (9" and 14") are made of high-impact polystyrene, individually packaged, sterilized by gamma irradiation, lot stamped, and shipped with a Certificate of Processing. Nonsterile 9" spatulas are made of polypropylene.

Description	Capacity	Blade Length	Handle Length	Length	Supplier No.	Cat. No.
Sterileware® 9" Spatula	15cc	15.3 cm (6"), V-Channel	7.6 cm (3")	22.9 cm (9")	369300000	56924-809

Sustainability with VWR

At VWR, we recognize that being a good corporate citizen is in the best interest of our customers, our community, and our company. Therefore, we follow the three primary goals as defined by the United Nations for sustainability: Environmental Protection, Social Impact, and Economic Growth. For more information, visit ca.vwr.com/sustainability.





VWR® Reclosable Clear Bags

Standard clear reclosable bags are available in 2mil and 4mil thickness. A wide zipper eases loading and provides a strong, secure seal. Bags 15.2cm (6") in height or smaller are packed in perforated dispenser bags; all other bags are packed in inner bags without the dispenser bag.



W x H	Cat. No.
2 mil Thickness	
15.2 x 22.8 cm (6 x 9")	89005-286
4 mil Thickness	
15.2 x 20.3 cm (6 x 8")	89005-306
20.3 x 25.4 cm (8 x 10")	89005-308
22.8 x 30.5 cm (9 x 12")	89005-310
30.5 x 38.1 cm (12 x 15")	89005-312
33 x 45.7 cm (13 x 18")	89005-314



VWR® Permanent Marking Pens

Perfect marking pens for small lab samples, slides, beakers, sample bags, and more. Write on glass, film, plastic, metal, porcelain, wood, rubber, and paper.



Four brilliant colors produce precise lines of 0.3mm width. Permanent ink dries in a split second and is water- and fade-proof. Airtight ring seal cap prevents dry-out.

Ordering Information: Assortment pack consists of six black, two red, two blue, and two green pens.

Ink Color	Cat. No.
Assorted	52877-810



VWR® Labeling Dots, Self-Adhesive

- Hundreds of Uses
- Dots Available in 7 Colors

Designed for use on test tubes, sample batches, or virtually any surface that requires labeling. Labels can also be used for date coding or personal identification. Labeling dots are packaged 1000 per roll, 1 roll per case.



Diameter	Color	Cat. No.
1.9 cm (3/4")	White	89097-818



VWR® Absorbent Bench Underpads

These super absorbent underpads have a three-layer construction. Each underpad contains a top sheet that is made of a soft white spun-bond polypropylene. The absorbent cellulose fluff filler, sandwiched between two layers of tissue, is embossed overall for superior wicking of fluid. It acts as a cushion to protect labware from breakage. The backing sheet comes in different colors and is made of embossed polypropylene. Each pad is sealed on four sides to prevent liquid seepage.

Deluxe pads are more absorbent and thicker with more absorbent cellulose fluff than standard pads. Super deluxe pads have an added polymer that absorbs more moisture. Super deluxe pad **56617-032** comes in a breathable format.

Ordering Information: Underpad **82020-845** is packed 50 pads per pack, six packs per case.

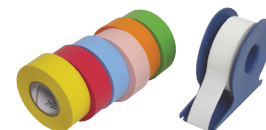


W x L	Absorbency	Backing Color	Cat. No.
Standard Pads			
43.2 x 61 cm (17 x 24")	200 mL	Blue	56617-014
Deluxe Pads			
43.2 x 61 cm (17 x 24")	340 mL	Blue	56616-018
58.4 x 61 cm (23 x 24")	410 mL	Blue	56616-032
58.4 x 91.4 cm (23 x 36")	600 mL	Blue	56617-000
58.4 x 91.4 cm (23 x 36")	680 mL	Blue	56616-030

VWR® General-Purpose Laboratory Labeling Tape

A wide assortment of vinyl-coated, soft satin-finish paper tape that sticks to virtually any surface. It can be written on with pencil, fiber-tip or ball point pen, and lab markers. This durable, self-adhesive tape is ideal for general laboratory use, and is excellent for applications in refrigeration. It can withstand temperatures from –23 to 121°C (–10 to 250°F) and has an application temperature as low as 0°C (32°F). The adhesive backing will peel off easily and leaves no residue.

Available in 2 roll sizes. Rainbow packs contain blue, green, orange, pink, red, yellow, and white tape.



Length	Width	Color	Cat. No.
Tape Rolls on 25.4 mm (1") Core			
12.7 m (41.7')	12.7 mm (1/2")	Black	89097-918
12.7 m (41.7')	12.7 mm (1/2")	Blue	89097-936
12.7 m (41.7')	12.7 mm (1/2")	Gray	89097-908
12.7 m (41.7')	12.7 mm (1/2")	Green	89097-930
12.7 m (41.7')	12.7 mm (1/2")	Red	89097-932
12.7 m (41.7')	12.7 mm (1/2")	White	89097-916

VWR® Cryogenic Vials with Closures, Polypropylene,

These cryogenic vials are manufactured from polypropylene to withstand temperatures to –196°C (–321°F). All self-standing vials have a special base design allowing them to be locked into a cryogenic rack and tray (see **89094-836**) for single-handed manipulation. All vials can be color-coded with cap inserts, which are sold separately. Vials have graduation marks and a large marking spot for easy labeling of contents. Supplied sterile. DNase- and RNase-free, and nonpyrogenic.

Warning: Do not use cryogenic vials for storage in the liquid phase of liquid nitrogen.

Ordering Information: Cap insert assortment (**89094-834**) includes 100 each of blue, green, red, yellow, and white.



Description	Capacity	Thread	Cat. No.
Conical-Bottom, Self-Standing Vials	1.2 mL	External	89094-800
Conical-Bottom, Self-Standing Vials	1.2 mL	Internal	89094-802
Round-Bottom Vials	2 mL	External	89094-808
Round-Bottom Vials	2 mL	Internal	89094-804
Round-Bottom, Self-Standing Vials	2 mL	External	89094-806
Round-Bottom, Self-Standing Vials	2 mL	Internal	89094-810
Round-Bottom Vials	4 mL	Internal	89094-814
Round-Bottom, Self-Standing Vials	4 mL	External	89094-812
Round-Bottom, Self-Standing Vials	4 mL	Internal	89094-816
Round-Bottom Vials	5 mL	Internal	89094-820
Round-Bottom, Self-Standing Vials	5 mL	External	89094-818
Round-Bottom, Self-Standing Vials	5 mL	Internal	89094-822

Accessories		Cat. No.
Description		
Color-Coded Cap Inserts, Blue		89094-824
Color-Coded Cap Inserts, Green		89094-826
Color-Coded Cap Inserts, Red		89094-828
Color-Coded Cap Inserts, White		89094-830
Color-Coded Cap Inserts, Yellow		89094-832
Color-Coded Cap Inserts, Assorted		89094-834

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with a Representative.

VWR COLLECTION

VWR® Disposable Microcentrifuge Tubes

Graduated, polypropylene tubes feature flat caps and frosted areas on the sides for easy labeling. Snap caps can be penetrated by a syringe. Easy-to-open caps will not pop open during centrifuging. RNase- and DNase-free.



All tubes are autoclavable, nonsterile, and packaged in resealable bags.

Maximum RCF	20,000 g
Temperature range	-90 to 140°C (-194 to 284°F) storage, 0 to 40°C (32 to 104°F) centrifuging

Volume	Color	Cat. No.
0.5 mL	Amber	89000-012
0.5 mL	Assorted	89000-026
0.5 mL	Blue	89000-022
0.5 mL	Green	89000-024
0.5 mL	Natural	89000-010
0.5 mL	Orange	89000-016
0.5 mL	Purple	89000-020
0.5 mL	Red	89000-018
0.5 mL	Yellow	89000-014
1.5 mL	Amber	89000-030
1.5 mL	Assorted	89000-044
1.5 mL	Blue	89000-040
1.5 mL	Green	89000-042
1.5 mL	Natural	89000-028
1.5 mL	Orange	89000-034
1.5 mL	Purple	89000-038
1.5 mL	Red	89000-036
1.5 mL	Yellow	89000-032
2 mL	Amber	20170-084
2 mL	Assorted	20170-098
2 mL	Blue	20170-094
2 mL	Green	20170-096
2 mL	Natural	20170-170
2 mL	Orange	20170-088
2 mL	Purple	20170-092
2 mL	Red	20170-090
2 mL	Yellow	20170-086

Duracell® Lithium Batteries, Bulbtronics

Hazmat. Non-rechargeable.

Description	Voltage	Supplier No.	Cat. No.
Duracell® Flat Terminal IEC CR2450 Primary Cell Battery, Mercury-Free	3V	0006737	89133-618

Rayovac® Alkaline Batteries, Bulbtronics

Non-hazmat. Mercury-free. Non-rechargeable.

Description	Voltage	Supplier No.	Cat. No.
Rayovac® Spring Terminal IEC 4LR20 Primary Cell Battery	6V	0028475	80086-582

Eveready® Alkaline Batteries, Bulbtronics

Non-hazmat. Mercury-free. Non-rechargeable.

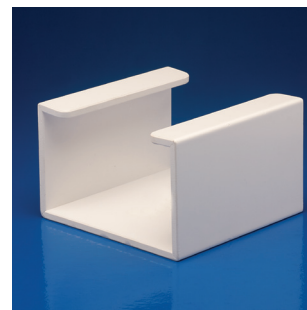
Description	Voltage	Supplier No.	Cat. No.
Eveready® Pressure Contact IEC LR6 Primary Cell Battery	1.5V	0002797	89082-410

VWR COLLECTION

VWR® Light-Duty Tissue Wipers

- Absorbent, strong, and low-linting
- Ideal for lab, pharmaceutical, biomedical, and healthcare industries
- Antistatic, film-windowed boxes

Virgin fiber tissue wipers are absorbent, soft, strong, and low-linting. For use in laboratory, electronic, pharmaceutical, biomedical, optical, healthcare, computer assembly, graphic, and many other light manufacturing and assembly applications. Wipers come in antistatic film-windowed dispenser boxes.



Custom-size dispensers, available separately, hold wiper boxes securely, providing one-handed access to wipers. Dispensers are made from 6mm (1/4") white PVC and can be wall-mounted or placed on a bench. Double-faced tape allows semi-permanent installation and holds dispenser securely. Medium and large dispensers feature keyhole openings for screws, providing for permanent installation.

Description	Thickness	W x L	Packaging	Cat. No.
Light-Duty Tissue Wipers	1-Ply	35.6 x 42.4 cm (14 x 16 ³ / ₄ "	140/Box	82003-822

Accessories		Cat. No.
Description		
Dispenser, Small, for 11.4W x 21.3L cm (4 ¹ / ₂ x 8 ³ / ₈ " Wipers		14233-756
Dispenser, Medium, for 35.6W x 42.4L cm (14 x 16 ³ / ₄ " Wipers		14233-758
Dispenser, Large, for 35.6W x 42.4L cm (14 x 16 ³ / ₄ " Wipers		14233-760

WYPALL® L10 Utility-Wipers, Kimberly-Clark Professional®

- One-ply wipers are strong, soft, highly absorbent, lint-free and odorless
- Specially treated for wet strength
- All wipers meet EPA standards for minimum post-consumer waste content



Special surface wipers are ideal for a variety of wiping jobs in the laboratory and in general industry applications. Made of one-ply (89002-976 is 2-ply) paper, wipers are strong, soft, highly absorbent, lint-free, odorless, and specially treated for wet strength. Items 21908-023 and 82002-918 are utility wipers. Items 89002-976 and 89208-628 are windshield wipers. All wipers meet EPA standards for minimum post-consumer waste content (wipers 40%).

Ordering Information: Wipers 21908-023 and 82002-918 are packaged 125 wipers per Pop-Up® box. Wipers 89002-976 are banded in packs of 140. Wipers 89208-628 are banded in packs of 224.

W x L	Color	Supplier No.	Cat. No.
22.9 x 26.7 cm (9 x 10 ¹ / ₂ "	White	05320	CA21908-023

Ordering Products is Easy Through vwr.com

Our website gives you maximum control over the ordering process. With customizable options, you can simplify procurement by matching the process to your own business practices. To learn more, visit vwr.com/helpcenter-canada.



WYPALL® X80 Wipers, KIMBERLY-CLARK PROFESSIONAL®

- Durable and economical alternative to laundered shop towels and rags
- Suitable for a wide range of laboratory and industrial tasks, including oil, solvent, and chemical cleanup
- Consistent size and strength without the inconvenience of holes, strings, or residues
- HYDROKNIT® hydroentangled material manufactured without adhesives or chemical binders will not scratch skin or delicate surfaces
- Reusable towels will not fall apart when wet

Durable and economical alternative to laundered shop towels and rags. Suitable for a wide range of laboratory and industrial tasks, including oil, solvent, and chemical cleanup. Wipers absorb oil and water faster than rags or laundered towels. They provide consistent size and strength without the inconvenience of holes, strings, or residues.

Constructed of HYDROKNIT™, a hydroentangled material manufactured without adhesives or chemical binders. Reusable wipers will not scratch skin or delicate surfaces, and will not fall apart when wet. They maintain strength even in solvents. Long-lasting, on-the-job performance extends usage, reducing cost and waste.

Ordering Information: Quarter-fold packaged wipers are wrapped in stacks of 50. BRAG™ box-packaged wipers are supplied 160 per box; Pop-Up™ boxes each contain 80 wipers.



89003-842

W x L	Color	Packaging	Supplier No.	Cat. No.
23.1 x 42.7 cm (9 ¹ / ₈ x 16 ¹³ / ₁₆ "	White	Pop-Up® Box	41048	CA89000-634

VWR® COLLECTION

VWR® SuperClear™ Ultra-High Performance Centrifuge Tubes with Flat or Plug Caps, Polypropylene

- Thick-Wall Construction for High-Speed Operation
- Leakproof
- Available in Earth Friendly® Recyclable Racks
- RNase-, DNase-, and Endotoxin-Free
- Validated ISO 11137 Sterile Process



These popular conical-bottom centrifuge tubes are made of ultra-clear polypropylene copolymer. They feature printed graduations and smooth inner walls for easy filling and sample preparation. Printed writing area on side allows for permanent coding. Autoclavable at 122°C (251.6°F). Freezable to -90°C (-130°F).

Caps are available in two styles: flat, with a smooth surface for additional labeling options and plug style for a secure seal when using shakers and horizontal incubators. All caps are made of high density polyethylene and are autoclavable. Caps must be loosely attached to tubes when autoclaving.

Volume	Dia. x L	Maximum RCF	Sterility	Packaging	Cat. No.
Tubes with Plug Caps					
15 mL	17 x 118 mm	17,000 g	Nonsterile	50/Bag, 10 Bags/Case	93000-020
15 mL	17 x 118 mm	17,000 g	Sterile	50/Bag, 10 Bags/Case	93000-022
15 mL	17 x 118 mm	17,000 g	Nonsterile	25/Rack, 2 Racks/Pack, 10 Packs/Case	93000-024
15 mL	17 x 118 mm	17,000 g	Sterile	25/Rack, 2 Racks/Pack, 10 Packs/Case	93000-026
15 mL	17 x 118 mm	17,000 g	Nonsterile	Bulk	93000-028
50 mL	29 x 115 mm	20,000 g	Nonsterile	50/Bag, 10 Bags/Case	93000-030
50 mL	29 x 115 mm	20,000 g	Sterile	50/Bag, 10 Bags/Case	93000-032
50 mL	29 x 115 mm	20,000 g	Nonsterile	25/Rack, 20 Racks/Case	93000-034
50 mL	29 x 115 mm	20,000 g	Sterile	25/Rack, 20 Racks/Case	93000-036
50 mL	29 x 115 mm	20,000 g	Nonsterile	Bulk	93000-038
Tubes without Caps					
50 mL	29 x 115 mm	20,000 g	Nonsterile	Bulk	37001-468
Tubes with Flat Caps					
15 mL	17 x 118 mm	17,000 g	Nonsterile	25/Rack, 2 Racks/Pack, 10 Packs/Case	21008-089
15 mL	17 x 118 mm	17,000 g	Nonsterile	50/Bag, 10 Bags/Case	21008-214
15 mL	17 x 118 mm	17,000 g	Nonsterile	Bulk	21008-105
15 mL	17 x 118 mm	17,000 g	Sterile	25/Rack, 2 Racks/Pack, 10 Packs/Case	21008-103
15 mL	17 x 118 mm	17,000 g	Sterile	50/Bag, 10 Bags/Case	21008-216
50 mL	29 x 115 mm	20,000 g	Nonsterile	25/Rack, 20 Racks/Case	21008-169
50 mL	29 x 115 mm	20,000 g	Nonsterile	50/Bag, 10 Bags/Case	21008-240
50 mL	29 x 115 mm	20,000 g	Nonsterile	Bulk	21008-177
50 mL	29 x 115 mm	20,000 g	Sterile	25/Rack, 20 Racks/Case	21008-178
50 mL	29 x 115 mm	20,000 g	Sterile	50/Bag, 10 Bags/Case	21008-242

Nunc® CryoTube® Vials, Polypropylene, Internal Thread with Screw Cap, Thermo Scientific

Internally threaded, polypropylene vials for cryogenic storage of cells, blood, serum, and other biological specimens. Appropriate for use in mechanical or liquid nitrogen freezers, at temperatures from -196 to 121°C (-321 to 250°F). Cap incorporates a special silicone gasket for the best possible seal. Vials have a 12.5mm diameter.

Self standing vials are available in skirted or starfoot styles. Starfoot-style vials permit one-hand operation when used with CryoTube® racks (see 55710-260 series)

Sterile vials feature a write-on area. Nonsterile vials feature barcoding. The barcode on vial 73521-444 is directly printed via ink-jet; the barcode on vial 73521-442 is an attached, chemical-resistant label.

Warning: For safe storage in the liquid phase of liquid nitrogen, CryoTube® vials must be correctly sealed in CryoFlex™ tubing (see 24270-013 series).

Passed 95kPa testing for IATA requirements.



Description	Capacity	Sterility	Style	Supplier No.	Cat. No.
Non-Self-Standing Vials	1.8 mL	Sterile	Round-Bottom	363401	CA66021-985
Skirted Self-Standing Vials	1.8 mL	Sterile	Round-Bottom	368632	CA66021-987
Non-Self-Standing Vials	3.6 mL	Sterile	Round-Bottom	366524	CA66021-988
Starfoot Self-Standing Vials	3.6 mL	Sterile	Round-Bottom	379189	CA66021-989
Starfoot Self-Standing Vials	4.5 mL	Sterile	Round-Bottom	379146	CA66021-991
Skirted Self-Standing Vials	1 mL	Sterile	Conical-Bottom	366656	CA66021-992
Starfoot Self-Standing Vials	1 mL	Sterile	Conical-Bottom	377224	CA66021-993
Starfoot Self-Standing Vials	1.8 mL	Nonsterile	Round-Bottom	373530	CA73521-444

Cryo.s™ Cryogenic Storage Vials, Polypropylene, Sterile, Greiner Bio-One

Designed for short- and long-term storage of samples and cells. Vials are made from virgin polypropylene resin for purity, clarity, and consistency. Vials are available with internal or external thread. The internal thread format features a silicone gasket and is ideally suited for storage in the vapor phase of liquid nitrogen, at temperatures from -196 to 121°C. Vials are nonpyrogenic and RNase- and DNase-free to <0.06EU/mL. All vials are supplied with caps. Each case includes cap inserts.



Description	Capacity	Cap Color	Thread	Supplier No.	Cat. No.
Conical-Bottom, Self-Standing Vials	1 mL	Clear	Internal	123261	82050-178
Conical-Bottom, Self-Standing Vials with Writing Area	1 mL	Clear	Internal	123263	82050-180
Round-Bottom Vials	2 mL	Clear	Internal	121261	82050-154
Round-Bottom Vials with Writing Area	2 mL	Clear	Internal	121263	82050-156
Round-Bottom, Self-Standing Vials	2 mL	Clear	Internal	122261	82050-166
Round-Bottom, Self-Standing Vials	2 mL	Clear	External	126261	82050-204
Round-Bottom, Self-Standing Vials with Writing Area	2 mL	Clear	Internal	122263	82050-168
Round-Bottom, Self-Standing Vials with Writing Area	2 mL	Clear	External	126263	82050-206
Round-Bottom, Self-Standing Vials	4 mL	Clear	External	127261	82050-216
Round-Bottom, Self-Standing Vials with Writing Area	4 mL	Clear	External	127263	82050-218
Round-Bottom Vials	5 mL	Clear	Internal	124261	82050-190
Round-Bottom Vials with Writing Area	5 mL	Clear	Internal	124263	82050-192

VWR® COLLECTION

VWR® Silicone Pump Tubing

Extremely flexible tubing is specially formulated to withstand repeated compression and release for consistent, reliable performance in peristaltic pumps. Low-volatile grade, platinum-cured silicone tubing is produced in a certified ISO Class 6 (FED-STD-209E Class 1000/M4.5) cleanroom for use in critical pharmaceutical, biomedical, laboratory, food, beverage, and fragrance applications. Designed to maintain a long service life, tubing features an ultra-smooth interior surface that provides uniform fluid flow and resistance to bacteria build-up. Certified free of animal-derived components. Imparts no taste or odor to critical stream.

Note: Not intended for implantation, continuous steam applications, or elevated pressure levels.

Tubing has undergone extensive physical, chemical, and biological testing and meets USP Class VI and FDA CFR 177.2600 standards; compound meets ISO 10993 standards. Sterilizable by autoclave and gamma radiation.

Ordering Information: Supplied in 15.2m (50') lengths. Sealed in polyethylene bags to ensure cleanliness. Quality control and lot traceability identification on bags and boxes. Complete validation package available upon request.



Durometer Hardness	Shore A, 50
Temperature range	-73 to 204°C (-100 to 400°F)

I.D. x O.D.	Wall Thickness	Cat. No.
0.125 x 0.250"	0.063"	89068-432

Instrument Trays, Stainless Steel , Polar Ware

For sterilization of instruments, syringes, and more. Made of stainless steel for easy cleaning and quick sterilization. Stain-proof and long lasting — won't chip, break, or corrode. May be ordered with or without solid flat covers. Same cover is used for trays **62687-069** and **-070**.



Description	Volume	L x W x H	Supplier No.	Cat. No.
Tray	1.5 L (1 ⁵ / ₈ qt.)	25.4 x 16.5 x 5.1 cm (10 x 6 ¹ / ₂ x 2")	1002	62687-027

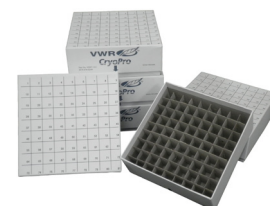
Accessories				
Description			Supplier No.	Cat. No.
Cover for 1.5 L Tray			1002-2	62687-028
Cover for 2.7 L Tray			1202-2	62687-050
Cover for 4.7 and 8.4 L Trays			1650-2	62687-073

VWR COLLECTION

VWR® CryoPro® Fiberboard Storage Boxes and Dividers

Boxes and dividers are constructed of durable fiberboard with a protective, moisture-repellant coating. Liquid nitrogen (LN₂) freezer boxes feature slots for safe LN₂ drainage and reduced LN₂ consumption. Mechanical freezer boxes do not feature slots and cannot be used with LN₂.

Boxes with dividers feature a lid printed with a numbered grid for superior inventory control. Boxes without dividers can accommodate dividers (sold separately) for 16 to 100 places. Fiberboard dividers can fit in any 12.7Wx12.7Lcm (5x5") LN₂ cryogenic or mechanical freezer box.



L x W x H	No. of Places	Cat. No.
Fiberboard Dividers		
12.7 x 12.7 x 2.5 cm (5 x 5 x 1")	16	82021-118
12.4 x 12.4 x 3.2 cm (4 ⁷ / ₈ x 4 ⁷ / ₈ x 1 ¹ / ₄ ")	25	82021-120
12.7 x 12.7 x 2.5 cm (5 x 5 x 1")	49	82021-122
12.7 x 12.7 x 2.5 cm (5 x 5 x 1")	64	82021-124
12.7 x 12.7 x 2.5 cm (5 x 5 x 1")	81	82021-126
12.7 x 12.7 x 2.5 cm (5 x 5 x 1")	100	82021-128

Convertors® Paper/Film Gas/Steam Sterilization Pouches, Cardinal Health®

Peel-open pouches are designed for quick, easy presentation of sterile items. Can be used in steam or EO sterilization. Chemical process indicators on every pouch identify the sterilization process used. Items within the pouch are easily viewed through the blue-tinted 2mil-thick film side. The other side is made of tough, moisture-resistant, surgical-grade paper, which provides high porosity for fast sterilization while maintaining an effective bacterial barrier.

Heat-seal pouches can be heat-sealed or taped shut. Self-seal pouches feature a pressure-sensitive closure that is prefolded to help ensure the integrity of the seal.



W x L	Supplier No.	Cat. No.
Blue Film Heat-Seal Pouches		
45.7 x 55.9 cm (18 x 22")	91822	CA11213-044
Blue Film Self-Seal Pouches		
30.5 x 38.1 cm (12 x 15")	92152	CA11213-230
33 x 45.7 cm (13 x 18")	92318	CA11213-236
19.1 x 33 cm (7 ¹ / ₂ x 13")	92713	CA11213-245

Vertical Autoclaves, Tuttnauer®/Brinkmann®

Top-loading vertical autoclaves are fully automatic and microprocessor-controlled, with vertical steam sterilizers that save hours in batch time and do not require media to be exposed to high temperatures for unduly long periods of time. Autoclaves feature four sterilization program settings, three-button control panel, LCD screen, built-in 24-character printer, RS-232 interface, mineral-free water level regulation, and two validation ports. Temperature range is 60 to 135°C (140 to 275°F). The Liquid Program 3 setting sterilizes liquids in 20 minutes at 121°C (250°F) with no cooling; the cycle ends with slow exhaust to prevent bursting. Two PT-100 built-in temperature sensors and one water sensing electrode accurately monitor sterilization of liquids and media.

Chamber holds submersible heating element and can accommodate Erlenmeyer flasks as large as 5000mL. Cooling cube operates from 0 to 40°C (32 to 104°F) and has a filling volume of 12L (3.2gal.).

ELVC autoclaves are equipped with a rapid cooling system in which cooling coils surround the chamber for rapid and efficient cooling.

UL listed. CSA certified.

Ordering Information: Autoclaves are supplied with two stainless steel wire baskets.



Electrical	Model	Capacity	Chamber Dimensions	Exterior Dimensions	Basket Inner Dimensions	Supplier No.	Cat. No.
208V, 60Hz, 16A	3850	62 L (2.2 cu. ft.)	37.8Dia. x 49D cm (14 ²⁹ / ₃₂ x 19 ⁵ / ₁₆ "	65W x 77H x 50D cm (25 ¹⁹ / ₃₂ x 30 ⁵ / ₁₆ x 19 ¹¹ / ₁₆ "	35.7Dia. x 22D cm (14 ¹ / ₁₆ x 8 ¹¹ / ₁₆ "	023210920CA	CA11009-266
208V, 60Hz, 16A	3850	62 L (2.2 cu. ft.)	37.8Dia. x 49D cm (14 ²⁹ / ₃₂ x 19 ⁵ / ₁₆ "	65W x 77H x 50D cm (25 ¹⁹ / ₃₂ x 30 ⁵ / ₁₆ x 19 ¹¹ / ₁₆ "	35.7Dia. x 22D cm (14 ¹ / ₁₆ x 8 ¹¹ / ₁₆ "	023210930CA	CA11009-268
208V, 60Hz, 16A	3870	85 L (3 cu. ft.)	37.9 x 69 cm (14 ²⁹ / ₃₂ x 27 ¹ / ₃₂ "	65W x 95H x 50D cm (25 ¹⁹ / ₃₂ x 37 ¹³ / ₃₂ x 19 ¹¹ / ₁₆ "	35.7Dia. x 33D cm (14 ¹ / ₁₆ x 13")	023210940CA	CA11009-270
208V, 60Hz, 16A	3870	85 L (3 cu. ft.)	37.9Dia. x 69D cm (14 ²⁹ / ₃₂ x 27 ¹ / ₃₂ "	65W x 95H x 50D cm (25 ¹⁹ / ₃₂ x 37 ¹³ / ₃₂ x 19 ¹¹ / ₁₆ "	35.7Dia. x 33D cm (14 ¹ / ₁₆ x 13")	023210950CA	CA11009-272

MLS Series Top-Loading Portable Autoclaves, Panasonic

The importance of sterilization is essential to good laboratory practice, particularly in biotechnology, pharmaceutical, and clinical laboratories. Of all sterilization methods, high-pressure steam (autoclave) is the most widely used due to its efficacy, speed, and reliability. The Panasonic MLS Series top-loading autoclaves provide a safe and reliable high-pressure steam sterilizing environment within a self-contained unit that is easy to use. These energy saving autoclaves are ideal for a wide range of applications.

These units allow maximum flexibility for the sterilization of laboratory equipment and media. A new and improved compact design allows for flexible placement in any facility, while the large chamber offers capacity for up to eight 1L flasks. A total of 12 preset programs are available to choose from, as well as independent programming that allows users to set their own programs. The Panasonic top-loading portable autoclave maximizes the use of available floor space, while still providing ample capacity for storage within the 37cm (14.6") chamber.

Temperature is accurately maintained with one-touch operation and controlled by the microprocessor within 2°C of the set temperature in a 115 to 135°C range. The MLS series voice notification system and the Panasonic-built microprocessor will monitor the sterilization process step-by-step, and the internal temperature of the unit in real-time. Optional built-in process printer for batch documentation available. The printer prints out the process run results of temperature, pressure, vs. time. Each printout is date and time stamped.

QPS listed. RoHS compliant.

Ordering Information: Autoclaves include one-year manufacturer's warranty, drain hose, exhaust tank, exhaust hose, tank mounting bracket, and NEMA locking plug. Model **97002-402** is supplied with two stainless steel wire mesh baskets. Model **97002-404** is supplied with three stainless steel wire mesh baskets. Object temperature sensor **97002-410** can be installed to measure temperature of items in the autoclave chamber and to set the sterilization timer. This sensor is suitable for materials that heat up more slowly than the chamber, such as resins. Object temperature sensor must be purchased separately. Thermal printer **97003-756** can be installed for printing date- and time-stamped process run results: temperature, pressure, and time. Printer must be purchased separately.



Cat. No.	97002-402	97002-404
Electrical	120V, 60Hz, 20A	208/230V, 60Hz, 30A
Insulation	SUS 304 Stainless Steel	
Maximum Pressure	235 kPa (34.14 psi)	
Sterilization Temperature	115 to 135°C (239 to 275°F)	
Temperature Range	Sterilization Temperature: 115 to 135°C (239 to 275°F), Keep Warm Temperature: 45 to 60°C (113 to 140°F), Culture Media Melting Temperature: 60 to 114°C (140 to 237°F)	
Usable Chamber Height	48 cm (18 ⁷ / ₈ ") Includes recess in lid	70.5 cm (27 ³ / ₄ ") Includes recess in lid

Electrical	Capacity	Chamber Dimensions	Exterior Dimensions	Weight	Supplier No.	Cat. No.
115V, NEMA L5-30 Plug	50 L (1.8 cu. ft.)	37 x 64 cm (14.6 x 24.2")	47.8 x 63.2 x 74.8 cm (18.8 x 24.9 x 29.4")	61 kg (134 lbs.)	MLS3751L	97002-402
208/230V, NEMA L6-30 Plug	75 L (2.6 cu. ft.)	37 x 64 cm (14.6 x 24.2")	47.8 x 63.2 x 96.5 cm (18.8 x 24.9 x 38")	70 kg (154 lbs.)	MLS3781L	97002-404

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Accessories		
Description	Supplier No.	Cat. No.
Perforated Bucket, Small, 33dia. x 20H cm	MLS37PB30	14236-054
Perforated Bucket, Large, 33dia. x 40H cm	MLS37PB40	14236-056
Solid Bucket, 33dia. x 30H cm	MLS37C30	14236-058
Replacement Wire Basket, Large, 33.5dia. x 22.1H cm	MLS37BL	97002-406
Replacement Wire Basket, Small, 33.5dia. x 17H cm	MLS37BS	97002-408
Object Temperature Sensor	MLS37SB	97002-410
Printer for MLS Series Autoclaves	MLS37PR	97003-756
Autoclave Printer Paper	MLS37PRS	97014-908

VWR COLLECTION

VWR® Autoclavable Polypropylene Bags

Transparent 2mil thick polypropylene bags are suitable for autoclaving hazardous and nonhazardous materials and waste. Twist ties (included) allow proper closure for bag expansion and venting during sterilization. Can withstand autoclaving temperatures up to 135°C (275°F).

Meet strength requirements in ASTM D 1709-04 for 165g dart drop test.



W x H	Cat. No.
30.5 x 61 cm (12 x 24")	95042-554
61 x 76.2 cm (24 x 30")	95042-556
61 x 91.4 cm (24 x 36")	95042-558

Heidolph® SilentCrusher M Homogenizer, Brinkmann®

This low-noise, high-speed homogenizer is ideal for samples ranging from 0.8–2000mL. The maintenance-free drive unit features a magnetic coil and produces very little noise because there are no motor or mechanical couplings. The unit also is not fan-cooled, making it ideal for cleanroom applications. This homogenizer features an integrated rpm meter and digital speed display.

High-quality homogenizer tools are easy to attach and clean while changing samples. Tools are made of type 316 stainless steel, can be sterilized, and feature replaceable PTFE ball bearings. Sealed tools are suitable for applications under pressure (6bar) or vacuum (20mbar). The vessel holding bracket accommodates vessels with diameters between 20–105mm and includes two retainer rings.

The drive unit and power supply unit meet the standards of protection class (DIN 40050) IP 30.

Ordering Information: Manufacturer's three-year warranty.

Dimensions, Drive Unit	9W x 9D x 17.4H cm (3 ¹ / ₂ x 3 ¹ / ₂ x 6 ⁷ / ₈ "")
Dimensions, Plate Stand Footprint	18W x 24.5D cm (7 ¹ / ₈ x 9 ⁵ / ₈ "")
Dimensions, Plate Stand Shaft	1.3 dia. x 60L cm (1 ¹ / ₂ x 23 ⁵ / ₈ "")
Dimensions, Power Supply Unit	19.6W x 8.8D x 5.1H cm (7 ³ / ₄ x 3 ¹ / ₂ x 2")
Dispersing Volume Range	0.8–2000 mL
Electrical	100–240V, 47–63Hz, 130W
Speed Range	5000–26000 rpm
Unit Weight	1.8 kg (3.7 lbs.)
Viscosity Range	1–5000 mPa



Description	Supplier No.	Cat. No.
SilentCrusher M Homogenizer	036170020CA	CA11009-648

Accessories			
Description	Details	Supplier No.	Cat. No.
Homogenizer Tools, 8 F	3–50 mL, 80 mm Shaft Length, 55 mm Maximum Immersion Depth	036300730CA	CA11009-856
Sealed Homogenizer Tools, 8 DF	3–50 mL, 75 mm Shaft Length, 50 mm Maximum Immersion Depth	036300740CA	CA11009-858
Homogenizer Tools, 12 F	25–250 mL, 120 mm Shaft Length, 80 mm Maximum Immersion Depth	036300750CA	CA11009-860

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Accessories			
Description	Details	Supplier No.	Cat. No.
Homogenizer Tools, 12 G	25–250 mL, 120 mm Shaft Length, 80 mm Maximum Immersion Depth	036300760CA	CA11009-862
Sealed Homogenizer Tools, 12 DF	25–250 mL, 115 mm Shaft Length, 75 mm Maximum Immersion Depth	036300770CA	CA11009-864
Sealed Homogenizer Tools, 12 DG	25–250 mL, 115 mm Shaft Length, 75 mm Maximum Immersion Depth	036300780CA	CA11009-866
Homogenizer Tools, 18 F	100–1500 mL, 180 mm Shaft Length, 140 mm Maximum Immersion Depth	036300790CA	CA11009-868
Sealed Homogenizer Tools, 18 DF	100–1500 mL, 175 mm Shaft Length, 135 mm Maximum Immersion Depth	036300810CA	CA11009-870
Sealed Homogenizer Tools, 18 DG	100–1500 mL, 175 mm Shaft Length, 135 mm Maximum Immersion Depth	036300820CA	CA11009-872
Homogenizer Tools, 22 F	100–2000 mL, 180 mm Shaft Length, 140 mm Maximum Immersion Depth	036300830CA	CA11009-874
Homogenizer Tools, 22 G	100–2000 mL, 180 mm Shaft Length, 140 mm Maximum Immersion Depth	036300840CA	CA11009-876
Plate Stand	—	036300850CA	CA11009-878
Vessel Holding Bracket	—	036300860CA	CA11009-880
Cross Sleeve S Clamp	—	036300870CA	CA11009-882

Heidolph® Electronic High-Torque Overhead Stirrers, Brinkmann®

These overhead stirrers are ideal for mixing, homogenizing, suspending, gas intrusion, and recirculating both high- and low-viscosity substances. Constant speed is maintained, even under changing viscosities and loads. Electronic stirrers allow the monitoring of reaction progress as a function of viscosity changes.

Continuous documentation and the enhanced digital display of speed and torque are standard. Analog and digital interfaces offer precise speed control over the entire range. With the highest torque in their class, a peak overload of up to 200% is possible for a limited duration.

The lightweight and slim design improves handling and operation. The encapsulated housing is partly sealed against aggressive substances.

Easy integration in a computer-aided laboratory environment is achieved with analog and RS232C serial interfaces, and with optional accessories such as a remote control box, "Watch & Control" software, Interface PBI for Profibus, and the Profibus MasterCard.

Safety features include a maintenance- and spark-free motor, overheat protection with self-reset, and an automatic motor safety cut-out feature for continuous overload situations. The through-shaft is designed to allow raising or lowering of the stirring rod without moving the control head. At standstill, the speed may be preselected with the rotary speed control.

Ordering Information: Three-year manufacturer's warranty. Complete with chuck, key, Allen wrench, and 2m (6 1/2') grounded cord. Stirring paddles, clamps, stands, and other accessories are sold separately; see 43300-240 series. Through-shaft design is available on all models except RZR 2102 Control Z (**82005-018**).



Electrical	Model	Maximum Torque	Maximum Viscosity	Power Input/Output	Speed Range	Supplier No.	Cat. No.
115V, 50/60Hz	RZR 2051 Control	20 N-cm (40 Overload Mode N-cm)	10 Pa-s	80/50 W	50–2000 rpm	036090090CA	CA11009-486

Steri-Wrap® I Universal, Propper

Single use, non-woven fabric sterilization wrap designed for general hospital use. Suitable for all types of packaging needs. An efficient microbial barrier ensures pack security. Wraps have a tightly anchored fiber structure, and are supplied virtually lint-free. They will not delaminate, can be used on either side, and provide excellent liquid repellency.

Description	Dimensions	Supplier No.	Cat. No.
Steri-Wrap® I Single Use Wrap	30.5W x 30.5L cm (12 x 12")	311012	58752-861
Steri-Wrap® I Single Use Wrap	61W x 61L cm (24 x 24")	311024	58752-920

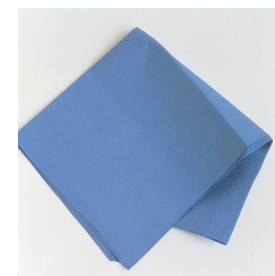


Convertors® Bio-Shield® Sterilization Wraps, Cardinal Health®

Superior bacterial barrier properties compared to linen. Durable, soft, low-linting wraps are liquid-repellent and tear-resistant. Wraps conform easily for greater handling convenience.

Use wraps for light trays, small basins, and towels. Wraps feature sterilization tapes that adhere firmly and remove easily.

Dimensions	Supplier No.	Cat. No.
20.3W x 20.3L cm (8 x 8")	4008	CA59100-180
30.5W x 30.5L cm (12 x 12")	4012	CA59100-226
50.8W x 50.8L cm (20 x 20")	4020	CA59100-232
61W x 61L cm (24 x 24")	4024	CA59100-234
76.2W x 76.2L cm (30 x 30")	4030	CA59100-236
91.4W x 91.4L cm (36 x 36")	4036	CA59100-238
101.6W x 101.6L cm (40 x 40")	4040	CA59100-240
121.9W x 121.9L cm (48 x 48")	4048	CA59100-244



LABOPORT® PowerDry® Self-Cleaning Vacuum Pumps, KNF Neuberger

These pumps are ideal for use in rotary evaporation, distillation, vacuum oven drying, vacuum concentration, and gel drying. Corrosion-resistant wetted parts made from fluoropolymer resin and Kalrez® resin make these pumps appropriate for use with even the most aggressive solvents.

Pumps with a 20L/min. flow rate are ideal for gel drying. Pumps with a 34L/min. flow rate are ideal for vacuum concentration. The 60L/min. pumps are ideal for large scale vacuum concentration.

PowerDry® pumps instantly purge condensed vapors and restore end vacuum performance while running. An adjustable electronic timer automatically cycles every few minutes, removing condensed vapors from the pump without disturbing the vacuum process. Keeping the vacuum pump clean and dry leads to shorter processing times, lower maintenance costs, and less downtime.

The 400mL dry ice trap (26678-056) has a glass body and a Plexiglas® lid. It is recommended as a pre-trap to collect liquids and reduce processing time when used with pumps in rotary evaporation, distillation, gel drying, vacuum concentration, and vacuum ovens. For maximum efficiency, the dry ice trap should be placed before the pump.



Electrical	L x W x H	Flow Rate	Vacuum	Shipping Weight	Supplier No.	Cat. No.
115V, 60Hz	32 x 16 x 20 cm (12 ⁵ / ₈ x 6 ⁵ / ₁₆ x 7 ⁷ / ₈ "	20 L/min. (0.7 cfm)	7.5 torr (29.6 in. Hg)	9.6 kg (21.2 lbs.)	N820.3FT.40P	46620-630
115V, 60Hz	33 x 17 x 22 cm (13 x 6 ¹¹ / ₁₆ x 8 ¹¹ / ₁₆ "	34 L/min. (1.2 cfm)	7.5 torr (29.6 in. Hg)	12.9 kg (28.4 lbs.)	N840.3FT.40P	46620-632
115V, 60Hz	33 x 29 x 28 cm (13 x 11 ⁷ / ₁₆ x 11"	60 L/min. (2.1 cfm)	3 torr (29.8 in. Hg)	14.8 kg (32.6 lbs.)	N860.3FT.40P	46620-634
115V, 60Hz	33 x 17 x 22 cm (13 x 6 ¹¹ / ₁₆ x 8 ¹¹ / ₁₆ "	34 L/min. (1.2 cfm)	3 torr (29.8 in. Hg)	13.7 kg (30.2 lbs.)	N842.3FT.40P	46620-636

Accessories		Supplier No.	Cat. No.
Description			
Dry Ice Trap		UST800	26678-056

Welch® Self-Cleaning Dry Vacuum Systems, Welch®

Complete oil-free vacuum system for rotary evaporators, concentrators, and other laboratory vacuum applications generating harsh chemical fumes. Systems have chemical resistant fume contact surfaces, durable 2 head dry PTFE diaphragm pumps, easy to operate controls.

System is ideal for rapid solvent stripping. Precise control of boiling enables smooth solvent removal. Gauge/control regulator enables fine adjustment of vacuum level. Handy switch provides instant end to bumping/foaming condition.

Inlet and outlet glass separators capture condensates, protecting the pump and laboratory atmosphere. Automatic self-cleaning feature purges diaphragms with air at conclusion of each evaporation, ensuring run-to-run consistency, maximum pumping efficiency, and long diaphragm life.

Two torr model (Models 2026 or 2027) for evaporating solvents with atmospheric pressure boiling points up to 160°C (includes DMF).

Nine torr model (Model 2025) for evaporating solvents with atmospheric pressure boiling points up to 100°C.

CSA certified.



Dimensions	42.2L x 30.5W x 28.7H cm (13 ¹⁹ / ₃₂ x 12 x 11 ⁵ / ₁₆ "
Electrical	115V, 60Hz
Free Air Displacement	35 L/min. (1.2 CFM)
Horsepower	1/5
Tubing Needed	7 mm I.D. (1/4")
Weight	13.6 kg (30 lbs.)

Description	Maximum Vacuum	Ultimate Pressure	Supplier No.	Cat. No.
Two Torr Models				
Model 2026, with Dial Gauge	758.2 mm Hg (29.9 in. Hg)	2.7 mbar (2 Torr)	202601	12000-544
Model 2027, with Digital Gauge	758.2 mm Hg (29.9 in. Hg)	2.7 mbar (2 Torr)	202701	12000-546
Nine Torr Model				
Model 2025, with Dial Gauge	752 mm Hg (29.6 in. Hg)	12 mbar (9 Torr)	202501	54994-126

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Chex-All® Heat-Sealable Pouches, Propper

These heat-sealable paper/plastic (polyethylene/polypropylene) sterilization pouches are triple-sealed, tamper-proof, and have a long shelf life. Pouch has corner seals to ensure dust-free, aseptic presentation. Penetration of sterilants into pack is monitored by preprinted indicators on both inside and outside for steam and EO gas. In steam, yellow indicators change to gray-black; red indicators do not change. In gas, red indicators change to green; yellow indicators do not change.



W x L	Supplier No.	Cat. No.
45.7 x 61.0 cm (18 x 24")	025024	58753-260

Chex-All® II Instant Sealing Pouches, Propper

Instant, self-sealing sterilization pouches eliminate the need for heat sealing and separate sealing tapes. Protective strip removes from fold-over adhesive end to provide complete hermetic seal. Seal will not open up in steam autoclaves and is unaffected by gas. Pouches are tamper-proof, producing visible evidence of seal tampering, and have the same sterile storage time as all pouches. Penetration of sterilants into pack is monitored by preprinted indicators on both inside and outside for steam and EO gas. In steam, yellow indicators change to gray-black; red indicators do not change. In gas, red indicators change to green; yellow indicators do not change.



W x L	Supplier No.	Cat. No.
7.6 x 20.3 cm (3 x 8")	024008	58753-106
8.9 x 61 cm (3 1/2 x 24")	024028	58753-220
12.7 x 25.4 cm (5 x 10")	024010	58753-139
17.8 x 30.5 cm (7 x 12")	024012	58753-161
20.3 x 40.6 cm (8 x 16")	024014	58753-202
30.5 x 45.7 cm (12 x 18")	024018	58753-194

ThermoSafe® Insulated Shippers, Expanded Polystyrene, ThermoSafe Brands

Lightweight utility shippers are designed to maximize temperature control and withstand the hazards of transport. Ideal for safe storage and delivery of most refrigerated or frozen materials, including pharmaceuticals, laboratory specimens, serums and vaccines, human organs, culture packs, and nuclear and isotope materials. Packs feature maximum capacity loading, molded-in handles, rounded corners and edges, and recessed strapping grooves. Constructed with expanded polystyrene (EPS) foam insulation to protect temperature-sensitive samples. Outer carton is made of 90.7kg (200lb.) test corrugated cardboard.



Ordering Information: For custom sizes and printing, and for additional sizes and accessories, contact your VWR sales representative.

Description	Exterior Dimensions	Interior Dimensions	Wall Thickness	Weight	Supplier No.
Assembled Foam Unit in Corrugated Carton	20.3L x 16.5 W x 11.4 H cm (8 x 6 1/2 x 4 1/2")	15.2L x 11.4 W x 6.4 H cm (6 x 4 1/2 x 2 1/2")	1"	0.5 kg (1 lbs.)	647
Assembled Foam Unit in Corrugated Carton, Dome-Style Lid	27.9L x 22.9W x 18.4H cm (11 x 9 x 7 1/4")	20.3L x 14.9W x 10.8H cm (8 x 5 7/8 x 4 1/4")	1 1/2"	0.45 kg (1 lbs.)	318
Assembled Foam Unit in Corrugated Carton	27.9L x 22.9W x 25.4H cm (11 x 9 x 10")	20.3L x 14.9W x 17.8H cm (8 x 5 7/8 x 7")	1 1/2"	9 kg (20 lbs.)	413
Assembled Foam Unit in Corrugated Carton, Dome-Style Lid	27.9L x 22.9W x 30.2H cm (11 x 9 x 11 7/8")	20.3L x 14.9W x 22.5H cm (8 x 5 7/8 x 8 7/8")	1 1/2"	0.7 kg (1.5 lbs.)	321UPS
Assembled Foam Unit in Corrugated Carton	27.9L x 22.9W x 36.8H cm (11 x 9 x 14 1/2")	20.3L x 14.9W x 29.2H cm (8 x 5 7/8 x 11 1/2")	1 1/2"	0.9 kg (1.9 lbs.)	324UPS
Assembled Foam Unit in Corrugated Carton	35.6L x 35.6W x 37.1H cm (14 x 14 x 14 5/8")	27.9L x 27.9W x 29.5H cm (11 x 11 x 11 5/8")	1 1/2"	1.5 kg (3.3 lbs.)	355

Accessories		
Description	Supplier No.	Cat. No.
Corrugate Only, For use with 315UPS, 317UPS, 328UPS or 346UPS	38-1KD	15713-582
Corrugate Only, For use with 316, 318, 648, or 649	33-4 KD	89079-084
Corrugate Only, For use with 319, 321UPS, 653 or 654	33-9 K D	87006-051
Corrugate Only, For use with 322UPS or 324UPS	33-12KD	15713-580
Corrugate Only, For use with 326 or 348UPS	TR-2 KD	95054-938
Corrugate Only, For use with 397 or 398	175KD	15713-505
Corrugate Only, For use with 411, 413, 445, 447UPS or 652	33-7KD	15714-530
Corrugate Only, For use with 438 and 439	56-8KD	14100-456
Corrugate Only, For use with 481 or 482	17-1KD	14100-480
Ring Stackers for 15713-664, 7.6 cm (3")	806R3	15713-662

ThermoSafe® Insulated Shippers, Expanded Polystyrene, ThermoSafe Brands

Designed to ship frozen specimens and temperature-sensitive serums, reagents, biochemicals, and pharmaceuticals. Expanded polystyrene (EPS) foam shippers reduce shipping weight and lower costs by eliminating the need to overpack delicate samples in extra pounds of dry ice or other refrigerants. Thin wall shippers are recommended for shipments of 24 hours or less; standard wall shippers are for shipments between 24 and 48 hours. Thick wall shippers provide an extra measure of safety when mailing temperature-controlled, hard-to-replace specimens, and are recommended for shipments of 48 hours or more. All shippers include tight-fitting EPS lids. Hollowed-out dome style lid available when extra head space is required. Available with or without 200lb. test corrugated carton.

Ordering Information: For additional sizes, contact your VWR sales representative.



Description	Interior Dimensions	Wall Thickness	Supplier No.	Cat. No.
Foam Shipper, Standard Wall	15.9L x 10.8W x 14H cm (6¼ x 4¼ x 5½")	3.8 cm (1½")	608UPS	14100-436
Foam Shipper Assembled in Corrugated Carton, Thin Wall	33.3L x 23.5W x 15.2H cm (13⅞ x 9¼ x 6")	2.5 cm (1")	479	15714-465

ThermoSafe® Insulated Shippers, Polyurethane, ThermoSafe Brands

These durable, one-piece, closed-cell polyurethane foam insulated shippers provide long-range protection for frozen or refrigerated products under moderate to extreme ambient temperature exposure. A proprietary process laminates a highly efficient insulation core to inner and outer corrugate walls. A flexible polyurethane foam plug seals the top, cushions and insulates contents, and allows for dry ice venting. Shippers are lightweight, reusable, and withstand crush compression in excess of 2268kg (5000lbs.). CFC- and HCFC-free.

Ordering Information: Shipper 89347-994 is pre-qualified for CRT shipments of blood platelets.



Exterior Dimensions	Interior Dimensions	Wall Thickness	Supplier No.	Cat. No.
47.6L x 42.5W x 54D cm (18¾ x 16¾ x 21¼")	30.5L x 25.4W x 33D cm (12 x 10 x 13")	7.6 cm (3")	E90UPS	14100-472
53.3L x 35.6W x 44.5D cm (21 x 14 x 17½")	41.3L x 23.5W x 26D cm (16¼ x 9¼ x 10¼")	5.1 cm (2")	E89UPS	14100-464
57.8L x 49.5W x 49.5D cm (22¾ x 19½ x 19½")	48.3L x 40W x 34.9D cm (19 x 15¾ x 13¾")	3.8 cm (1½")	E238	89496-688
59.1L x 48.9W x 48.9H cm (23¼ x 19¼ x 19¼")	47L x 36.8W x 30.5H cm (18½ x 14½ x 12")	5.1 cm (2")	E186	89401-704
59L x 58.4W x 61D cm (23¼ x 23 x 24")	47L x 46.4W x 42.5D cm (18½ x 18¼ x 16¾")	5.1 cm (2")	E327UPS	14100-468
71.1L x 35.6W x 52.7D cm (28 x 14 x 20¾")	59L x 23.5W x 34.3D cm (23¼ x 9¼ x 13½")	5.1 cm (2")	E168UPS	14100-466

ThermoSafe® Insulated Shipper-VIP with NanoTherm™ Panels, ThermoSafe Brands

Ideal for long duration shipments of temperature sensitive materials. NanoTherm™ vacuum insulated panels provide superior insulation that allows for extended shipping times and lowered costs. Containers have a high R value of 35 per inch and feature 2.5cm (1") NanoTherm™ walls that perform equal to 17.8cm (7") of polystyrene or 11.4cm (4½") of polyurethane. They require less refrigerant and allow more space for product.

These reusable and recyclable containers are non-toxic and biodegrade into CFC-free silica sand particles.

Ordering Information: Shipper 95041-885 is packaged as a pallet of 64.

Capacity	Exterior Dimensions	Interior Dimensions	Wall Thickness	Supplier No.	Cat. No.
155.7 L (5.5 cu. ft.)	66 x 61 x 50.8 cm (26 x 24 x 20")	61 x 55.9 x 45.7 cm (24 x 22 x 18")	2.5 cm (1")	550VIP-UPS	95054-966

Nomadic® Shipping Box, Pre-Qualified 2-8 Shipping Solution, ThermoSafe Brands

The Nomadic product line offers pre-qualified solutions for either 24 or 48 hour durations. Testing data is available upon request.



Description	Exterior Dimensions	Interior Dimensions	Packaging	Weight	Supplier No.	Cat. No.
2° to 8°C, 48-hr Pre-Qualified Shipping Solution	45.4 x 38.7 x 46 cm (17⅞ x 15¼ x 18⅞")	19.1 x 12.7 x 9.5 cm (7½ x 5 x 3¾")	18/Pallet	10.9 kg (24 lbs.)	E48	15715-175
2° to 8°C, 48-hr Pre-Qualified Shipping Solution	52.1 x 47 x 58.4 cm (20½ x 18½ x 23")	25.4 x 20.3 x 20.3 cm (10 x 8 x 8")	1/Pallet	20.8 kg (46 lbs.)	E280CUPS	87003-923
2° to 8°C, 48-hr Pre-Qualified Shipping Solution	52.1 x 47 x 58.4 cm (20½ x 18½ x 23")	25.4 x 20.3 x 20.3 cm (10 x 8 x 8")	12/Pallet	20.8 kg (46 lbs.)	E280C	87003-931

PolarPack® Standard Refrigerant Gel Packs, ThermoSafe Brands

Nontoxic, reusable standard gel packs are an economical alternative to wet ice for shipping temperature-sensitive materials. Exterior is durable 4.1mil thick polyethylene film. Refrigerant changes phase at 0°C (32°F) and returns to gel state upon thawing.



L x W x D	Weight	Supplier No.	Cat. No.
8.3 x 10.2 x 1.6 cm (3 ¹ / ₄ x 4 x 5 ¹ / ₈ "	85 g (3 oz.)	PP3	16000-068
14 x 8.9 x 1.9 cm (5 ¹ / ₂ x 3 ¹ / ₂ x 3 ¹ / ₄ "	170 g (6 oz.)	PP6	89050-000
16.5 x 8.9 x 1.9 cm (6 ¹ / ₂ x 3 ¹ / ₂ x 3 ¹ / ₄ "	226 g (8 oz.)	PP8	89050-002
15.2 x 14 x 2.5 cm (6 x 5 ¹ / ₂ x 1"	340 g (12 oz.)	PP12	89024-674
16.5 x 14 x 2.5 cm (6 ¹ / ₂ x 5 ¹ / ₂ x 1"	454 g (16 oz.)	PP16	14100-476
20.3 x 14 x 3.2 cm (8 x 5 ¹ / ₂ x 1 ¹ / ₄ "	680 g (24 oz.)	PP24	14100-478
26.7 x 14 x 0.6 cm (10 ¹ / ₂ x 5 ¹ / ₂ x 1 ¹ / ₄ "	907 g (32 oz.)	PP32	89049-998
26.7 x 19 x 3.2 cm (10 ¹ / ₂ x 7 ¹ / ₂ x 1 ¹ / ₄ "	1361 g (48 oz.)	PP48	82029-734

U-TEK® Phase Change Materials, ThermoSafe Brands

U-TEK® phase change materials are formulated refrigerant gel packs for products that require frozen temperatures, but cannot tolerate dry ice or CO₂. Laminated, metallized film exterior provides radiant heat barrier and resists punctures. Ideal for use with ThermoSafe foam mailers.



Description	L x W x D	Temperature	Weight	Supplier No.	Cat. No.
Refrigerant Pack	15 x 10 x 2 cm (6 x 4 x 3 ³ / ₄ "	-1.1 °C (30°F)	227 g (8 oz.)	429	15715-134
Refrigerant Pack	15 x 10 x 2 cm (6 x 4 x 3 ³ / ₄ "	-23 °C (-10°F)	227 g (8 oz.)	432	15715-137
Refrigerant Pack	16.5 x 16.5 x 2.2 cm (6 ¹ / ₂ x 6 ¹ / ₂ x 7 ¹ / ₈ "	-1.1 °C (30°F)	454 g (16 oz.)	596	15715-150
Refrigerant Pack	16.5 x 16.5 x 2.2 cm (6 ¹ / ₂ x 6 ¹ / ₂ x 7 ¹ / ₈ "	-23 °C (-10°F)	454 g (16 oz.)	597	15715-152
Refrigerant Pack	17.1 x 10.2 x 2.5 cm (6 ³ / ₄ x 4 x 1"	-1.1 °C (30°F)	340 g (12 oz.)	412	15715-103
Refrigerant Pack	17.1 x 10.2 x 2.5 cm (6 ³ / ₄ x 4 x 1"	-23 °C (-10°F)	340 g (12 oz.)	418	15715-105
Refrigerant Pack	19 x 16.5 x 2.5 cm (7 ¹ / ₂ x 6 ¹ / ₂ x 1"	-1.1 °C (30°F)	680 g (24 oz.)	414	73320-198
Refrigerant Pack	20.3 x 15.2 x 2.5 cm (8 x 6 x 1"	-23 °C (-10°F)	680 g (24 oz.)	420	15715-127
Refrigerant Pack	24 x 19.5 x 2.5 cm (9 ³ / ₈ x 7 ³ / ₄ x 1"	-1.1 °C (30°F)	907 g (32 oz.)	598	15715-154
Refrigerant Pack	24 x 19.5 x 2.5 cm (9 ³ / ₈ x 7 ³ / ₄ x 1"	-23 °C (-10°F)	907 g (32 oz.)	599	15715-156
Refrigerant Pack	26.7 x 19.7 x 3 cm (10 ¹ / ₂ x 7 ³ / ₄ x 1 ³ / ₁₆ "	-1.1 °C (30°F)	1361 g (48 oz.)	426	15715-130
Refrigerant Pack	27 x 19.5 x 3 cm (10 ¹ / ₂ x 7 ³ / ₄ x 1 ³ / ₁₆ "	-23 °C (-10°F)	1361 g (48 oz.)	427	15715-132

Koolit® Gel Packs, Gel Pack Refrigerants, Cold Chain

Formulated from nontoxic materials, these reusable gel packs maintain the thermal profile of temperature-sensitive products safely and more efficiently than ice.

The 500 Series gel packs contain a CMC-based gel formation, while the 500-ST Series packs contain a suppressed temperature gel formation. Both feature a puncture-resistant laminate foil film exterior. The 600 Series gel packs consist of a long-lasting polymer gel formulation in a 5mil thick white polyethylene pouch. They are ideal for one-time use or disposable applications.

Use the 0°C (32°F) gel formulation for the shipment of refrigerated products, and the -23°C (-10°F) formulation for products that need to stay below freezing temperatures.



Description	L x W x H	Temperature	Weight	Supplier No.	Cat. No.
600 Series Gel Packs					
Small Gel Pack	14.6 x 11.4 x 2.5 cm (5 ³ / ₄ x 4 ¹ / ₂ x 1"	0°C (32°F)	227 g (8 oz.)	608A	89049-356
Small Gel Pack	15.2 x 14 x 2.5 cm (6 x 5 ¹ / ₂ x 1"	0°C (32°F)	340 g (12 oz.)	612	89049-358
Large Gel Pack	19.7 x 15.2 x 3.8 cm (7 ³ / ₄ x 6 x 1 ¹ / ₂ "	0°C (32°F)	680 g (24 oz.)	624A	89049-362
Extra Large Gel Pack	23.5 x 20.3 x 4.5 cm (9 ¹ / ₄ x 8 x 1 ³ / ₄ "	0°C (32°F)	1361 g (48 oz.)	648	89049-364

KoolTemp® Molded Polyurethane Containers, Cold Chain

Ultra-insulated containers maintain 2 to 8°C (35.6 to 46.4°F) in shipments over long time periods or in extreme weather conditions when used with refrigerant packs. Vapor-proof barrier enhances thermal effectiveness for a higher R-value (measure of thermal resistance) than other insulated containers. Containers are lightweight and one-piece molded. They come with an outer corrugate box sealed at the top with a soft foam polyurethane plug. Manufactured using a modular design that allows the user to recycle components. EPA-compliant, with no harmful CFCs. Meet or exceed the standards of all major shippers.



Exterior Dimensions	Interior Dimensions	Wall Thickness	Supplier No.	Cat. No.
59L x 48.8W x 49.4H cm (23 ³ / ₁₆ x 19 ³ / ₁₆ x 19 ³ / ₈ ")	46.4L x 35.6W x 30.2H cm (18 ¹ / ₄ x 14 x 11 ⁷ / ₈ ")	5.1 cm (2")	U186-2-V	33500-418

KoolTemp® Insulated Shippers, EPS Foam Shipping Coolers, Cold Chain Technologies

Lightweight and reusable insulated expand polystyrene (Styrofoam) shippers provide excellent thermal protection for perishables and samples.

Channel construction and stand-off pads keep product away from condensation and provide more uniform temperature control throughout the cooler when used with dry ice or Koolit® refrigerants. State-of-the-art lid interlock design and secure tongue-and-groove friction fit minimize thermal loss. Rounded corners resist friction damage.

Shippers are available with or without outer corrugated carton.



Description	Capacity	Interior Dimensions	Wall Thickness	Supplier No.	Cat. No.
EPS Containers with Outer Corrugated Carton	3.4 L (0.12 cu. ft.)	20.3W x 15.2H x 10.8D cm (8 x 6 x 4 ¹ / ₄ ")	3.8 cm (1 ¹ / ₂ ")	TL864-SU-V	33500-400

Koolit® Foam Brick Gel Packs, Gel Pack Refrigerants, Cold Chain

Formulated from nontoxic materials, these reusable foam brick gel packs maintain the thermal profile of temperature-sensitive products safely and more efficiently than ice.

The puncture-resistant foam brick gel packs retain a uniform shape and are ideal for exact or tight-fitting configurations. Even heat absorption rate allows for greater cooling longevity.



Description	L x W x H	Temperature	Weight	Supplier No.	Cat. No.
Small Gel Pack					
Thin Foam Brick	4 1/2 x 4 x 3/4"	0°C (32°F)	7.7 oz.	301F	33500-334
Thick Foam Brick	4 1/2 x 4 x 1 1/2"	0°C (32°F)	15.5 oz.	306F	33500-340
Medium Gel Pack					
Thick Foam Brick	9 x 4 x 1 1/2"	0°C (32°F)	30.3 oz.	305F	33500-338

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VWR® Contour™ Deluxe Lab Chairs with Armrests

Black cloth or vinyl chairs feature height-adjustable arms, pneumatic seat height adjustment, backrests with kidney support, and a 66cm (26") diameter composite base with casters. Seat has contoured foam cushioning. The medium and high bench models have an adjustable footring that is 50.8cm (20") in diameter.

Ordering Information: Contour seating is covered by a five-year warranty against defects in material, workmanship or abnormal wear. Upholstery is covered for one year. Pneumatic cylinders are covered for the life of the product.



Backrest Dimensions	39.4W x 36.8H cm (15 ¹ / ₂ x 14 ¹ / ₂ ")
Seat Dimensions	47W x 41.9D x 7.6 thick cm (18 ¹ / ₂ x 16 ¹ / ₂ x 3")

Material	Seat Height	Chair Style	Chair Style	Shipping Weight	Cat. No.
Chairs Meet California Technical Bulletin 117 Requirements					
Cloth	43.2–55.9 cm (17–22")	Desk Height	Desk Height	17.7 kg (39 lbs.)	97056-558
Cloth	53.3–71.1 cm (21–28")	Medium Bench Height	Medium Bench Height	19.5 kg (43 lbs.)	97056-560
Cloth	53.3–78.7 cm (21–31")	High Bench Height	High Bench Height	19.5 kg (43 lbs.)	97056-562
Vinyl	43.2–55.9 cm (17–22")	Desk Height	Desk Height	17.7 kg (39 lbs.)	80092-458
Vinyl	53.3–71.1 cm (21–28")	Medium Bench Height	Medium Bench Height	19.5 kg (43 lbs.)	80092-460
Vinyl	53.3–78.7 cm (21–31")	High Bench Height	High Bench Height	19.5 kg (43 lbs.)	80092-462
Chairs Meet California Technical Bulletin 117 and 133 Requirements					
Cloth	43.2–55.9 cm (17–22")	Desk Height	Desk Height	17.7 kg (39 lbs.)	97056-582
Cloth	53.3–71.1 cm (21–28")	Medium Bench Height	Medium Bench Height	19.5 kg (43 lbs.)	97056-584
Cloth	53.3–78.7 cm (21–31")	High Bench Height	High Bench Height	19.5 kg (43 lbs.)	97056-586
Vinyl	43.2–55.9 cm (17–22")	Desk Height	Desk Height	17.7 kg (39 lbs.)	14555-352
Vinyl	53.3–71.1 cm (21–28")	Medium Bench Height	Medium Bench Height	19.5 kg (43 lbs.)	14555-354
Vinyl	53.3–78.7 cm (21–31")	High Bench Height	High Bench Height	19.5 kg (43 lbs.)	14555-356



VWR® Stainless Steel Utility Carts

These durable utility carts feature a unitized, electronically welded stainless steel angled leg design. Sound deadening panels under shelves restrict vibration and noise. Bumpers on legs and handles protect walls and furniture. Cleans and sanitizes easily. Three shelves.

Note: Capacity is the total cart capacity across all of the shelves with the weight evenly dispersed.



Capacity	W x L x H	Caster Size	Shelf Clearance	Shipping Weight	Cat. No.
136.1 kg (300 lbs.)	39.4 x 61 x 81.6 cm (15 ¹ / ₂ x 24 x 32 ¹ / ₈ ")	8.9 cm (3 ¹ / ₂ ")	29.8 cm (11 ³ / ₄ ")	13.2 kg (29 lbs.)	97005-266
136.1 kg (300 lbs.)	45.7 x 68.6 x 83.8 cm (18 x 27 x 33")	8.9 cm (3 ¹ / ₂ ")	31.1 cm (12 ¹ / ₄ ")	14.5 kg (32 lbs.)	97005-268
226.8 kg (500 lbs.)	39.4 x 61 x 81.3 cm (15 ¹ / ₂ x 24 x 32")	10.2 cm (4")	29.2 cm (11 ¹ / ₂ ")	17.7 kg (39 lbs.)	97005-270
226.8 kg (500 lbs.)	45.7 x 68.6 x 81.3 cm (18 x 27 x 32")	10.2 cm (4")	29.2 cm (11 ¹ / ₂ ")	19.1 kg (42 lbs.)	97005-272
226.8 kg (500 lbs.)	53.3 x 88.9 x 95.3 cm (21 x 35 x 37 ¹ / ₂ ")	12.7 cm (5")	33.3 cm (13 ¹ / ₈ ")	30.8 kg (68 lbs.)	97005-274

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Super Erecta® Wire Shelving, Stainless Steel, Metro™

Design your own wire shelf system with appropriate accessories. Type 304 stainless steel shelves provide maximum protection in corrosive environments. Open-wire design minimizes dust accumulation, allows a free circulation of air, and provides greater visibility of stored items. Easy shelf adjustment is possible through the use of SiteSelect® stationary or mobile posts (sold separately), which allow shelves to be readjusted and snapped into place at precise 2.5cm (1") increments along the entire height of the post. An easily identifiable double groove is positioned every 20.3cm (8") to further aid shelf alignment. Stationary posts are fitted with adjustable leveling bolts for use on uneven surfaces. Mobile posts require the purchase of stem casters. Stem casters (see 19766-236 series) and shelf dividers and ledges (see 22233-212 series) are available separately.

Shelves up to 121.9cm (48") in length can support up to 363kg (800lbs.) per level. Shelves longer than 121.9cm (48") can support up to 272kg (600lbs.) per level.

Note: The 35.6cm (14") wide shelves require the use of footplates (see 19766-814 series) when used as a freestanding unit. The actual length of the shelves is 3.2mm (1/8") shorter than the nominal dimension shown. Stationary posts over 189.6cm high and mobile posts over 138.6cm high are not for use with 35.6cm wide shelves. The height of the chrome-plated and stainless steel stationary posts includes a leveling bolt and cap.

Shelves meet MIL-S-40144E specifications.

Ordering Information: Each shelf and post is sold separately. To order posts or accessories, contact your VWR representative for more information. Each shelf includes four pairs of plastic split sleeves for securing shelf to posts.

W x L	Shipping Weight	Supplier No.	Cat. No.
45.7 x 152.4 cm (18 x 60")	8.2 kg (18 lbs.)	1860NS	CA19766-140

REDISHIP Purifier® Logic®+ Class II A2 Biosafety Cabinets, Labconco®

The new REDISHIP Purifier Logic+ Class II A2 Biosafety Cabinets ship within 48 hours. Logic+ Biosafety Cabinets excel in user comfort and functionality. Decades of industry leading advances in ergonomic design have shaped the Inclination™ Technology Suite that includes the following: 10° angled sash, patented curved air grille with built in armrest, fully accessible controls and eye-level mounted color display with MyLogic™ operating system. MyLogic provides intuitive programming, color coded menus, status messages and alarms with diagnostic troubleshooting—all using full sentences.

Using the same ECM blower technology as the Purifier Logic®, the Logic+ uses the Constant Airflow Profile™ (CAP) to maintain a precise volume of air as the filters load. In addition, the cabinet will continuously display the HEPA filter life remaining and cabinet status. These features combine to provide unparalleled safety.

The cabinet provides personnel, product and environmental protection and is suitable for work in biosafety levels 1, 2 and 3. These biohazard cabinets are designed to discharge HEPA-filtered exhaust air directly into the laboratory, or into an exhaust system through the optional Canopy Connection.

Ordering Information: All models are 115V and include UV light, service fixture and pass through. Choose from an 8" or a 10" sash height. Some models include a telescoping base stand (shown in image). In other models, the stand is sold separately. Please refer to product specifications for all details.



Description	Sash Opening	Supplier No.	Cat. No.
3' REDISHIP Purifier Logic+ A2 Biosafety Cabinet with Base Stand	8"	302389100	89413-126
3' REDISHIP Purifier Logic+ A2 Biosafety Cabinet with Base Stand	10"	302319100	89413-124
4' REDISHIP Purifier Logic+ A2 Biosafety Cabinet with Base Stand	8"	302489100	89413-130
4' REDISHIP Purifier Logic+ A2 Biosafety Cabinet with Base Stand	10"	302419100	89413-128
5' REDISHIP Purifier Logic+ A2 Biosafety Cabinet with Base Stand	8"	302589100	89413-134
5' REDISHIP Purifier Logic+ A2 Biosafety Cabinet with Base Stand	10"	302519100	89413-132
6' REDISHIP Purifier Logic+ A2 Biosafety Cabinet with Base Stand	8"	302689100	89413-138
6' REDISHIP Purifier Logic+ A2 Biosafety Cabinet with Base Stand	10"	302619100	89413-136

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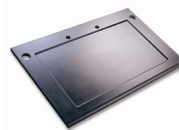


REDISHIP Protector® Premier® Laboratory Hoods and REDISHIP SpillStopper™ Work Surfaces, Labconco®

Popular models of Protector® Premier® Laboratory Hoods and supporting matching work surfaces (sold separately) are available from VWR® stock for immediate shipment. REDISHIP Protector® Premier® Fiberglass Hoods feature left and right-sided GFCI duplexes and Labconco's signature one-piece molded fiberglass reinforced polyester liner that provides superior corrosion and chemical resistance and durability. Each hood is factory prepared to accommodate up to eight service fixtures (sold separately). The hood's by-pass block design restricts airflow, allowing the REDISHIP Protector Premier to operate as a reduced air volume (RAV) or variable air volume (VAV) system with no modifications.

REDISHIP SpillStopper™ Work Surfaces are dished to contain spills and feature a left rear corner cutout and oval cup sink with cover.

Ordering Information: Base cabinets are sold separately. Choose from service fixture kits and other accessories for customization (sold separately). Fiberglass and Coated Steel Blowers in sizes matched to most installation requirements are also available (sold separately).



Description	Electrical	Service Fixtures	Electrical Duplex Outlet	Supplier No.	Cat. No.
6' REDISHIP Protector® Premier® Hood	115V	0	2	1006000010814	89260-054

Accessories			
Description	Supplier No.	Cat. No.	
REDISHIP SpillStopper™ Work Surface, 4' Premier® Hood	950041010814	89260-066	
REDISHIP SpillStopper™ Work Surface, 5' Premier® Hood	950051010814	89260-068	
REDISHIP SpillStopper™ Work Surface, 6' Premier® Hood	950061010814	89260-070	
REDISHIP SpillStopper™ Work Surface, 8' Premier® Hood	950081010814	89260-072	

Stainless Steel Worktables, Eagle MHC™

Worktables feature a 20-gauge, Type 430, polished stainless steel top, an adjustable 18-gauge galvanized steel undershelf, 410.D.mm (1⁵/₈") tubular heavy gauge galvanized steel legs, and 25mm (1") adjustable high-impact plastic feet. Tabletop has 38mm (1¹/₂") square edges that are flattened 180° at front and rear, and sides are turned down 90°. Tabletop is reinforced with a welded hat channel that includes sound deadening material between the top and channels. Unique uni-lok™ gusset system is recessed into the channel to reduce lateral movement. Undershelf is reinforced with a gusset welded to each corner. All tables are prepunched including attachment hardware for installation of drawer assemblies.

NSF approved.

Ordering Information: Worktables 14900-812 and -824 have six legs. Worktables are shipped disassembled and packed in a carton.



Dimensions	Weight	Supplier No.	Cat. No.
61 x 76.2 cm (24 x 30")	20.4 kg (45 lbs.)	ET2430B	14900-802
61 x 121.9 cm (24 x 48")	27.2 kg (60 lbs.)	ET2448B	14900-806
61 x 152.4 cm (24 x 60")	31.8 kg (70 lbs.)	ET2460B	14900-808
61 x 182.9 cm (24 x 72")	36.3 kg (80 lbs.)	ET2472B	14900-810
61 x 243.8 cm (24 x 96")	45.4 kg (100 lbs.)	ET2496B	14900-812
76.2 x 76.2 cm (30 x 30")	20.9 kg (46 lbs.)	ET3030B	14900-814
76.2 x 91.4 cm (30 x 36")	23.6 kg (52 lbs.)	ET3036B	14900-816
76.2 x 152.4 cm (30 x 60")	34.5 kg (76 lbs.)	ET3060B	14900-820
76.2 x 182.9 cm (30 x 72")	38.1 kg (84 lbs.)	ET3072B	14900-822

Eyesaver® Combination Faucet and Eyewash Systems, Speakman®

These unique eyewash systems combine a high-quality gooseneck faucet with an independently operating eyewash to provide a safer, faster lab safety system. They are equipped with two separate supply tubes inside the gooseneck spout, one dedicated to the eyewash and the other dedicated to the faucet. This provides an independent cold or tepid water supply to the eyewash, so there is never a danger of scalding the eyes with hot water. There is no need to activate the faucet for the eyewash to work. The eyewash features aerated sprays, one-pull activation and alignment, and integral flip-top dust covers that automatically pop off when eyewash is activated. The fully functional gooseneck faucet features 1/4-turn ceramic valves (on wrist blade handle systems) or ceramic cartridge (on lever handle systems), configuration, and a polished chrome-plated finish.

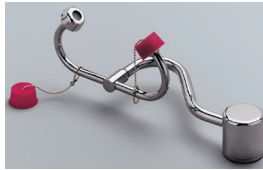
Meet ANSI Z358.1 standard.



Description	Supplier No.	Cat. No.
System with Separate Hot and Cold Wrist Blade Handles	SEF-1800-CA	14221-386

Eyesaver® Deck-Mount Swing-Out Eyewash, Speakman®

Low-profile counter-top eyewash unit for installations where space is at a premium. Unit is activated when rotated into place. Features twin aerated sprays, stay-open 1/4-turn Perfect Valve* with swing activation, polished chrome finish, left or right hand operation for installation flexibility, built-in flow regulator to compensate for varying supply pressures, and deck/wall mounted sign for easy identification.



Meets ANSI Z358.1 standard.

Description	Supplier No.	Cat. No.
Eyesaver* Deck-Mount Swing-Out Eyewash	SE-570	14214-370

Laboratory Pegboards, AGR Fabricators

Pegboards are constructed of Trespa® Toplab® phenolic resin and are 2.5cm (1") thick with black polypropylene pegs measuring 15.2x1.3cm (6x1/2"). Mount on wall above curb.



W x H	No. of Pegs	Supplier No.	Cat. No.
76.2 x 76.2 cm (30 x 30")	46	AGPB-1901-TR	89005-518
61 x 76.2 cm (24 x 30")	39	AGPB-1902-TR	89005-520

VWR® COLLECTION

VWR® Broken Glass Disposal Cartons

- Safe, convenient disposal of broken glassware
- Packed flat to save space; easy to assemble

Disposable cardboard receptacles with 2mil thick polypropylene liner safely contain broken glass and residual liquids. Entire unit may be disposed of as a whole once safety cap is pulled into place. Available in floor and benchtop models.

Optional, reusable carton cover (for floor model only) provides a wider opening 20.3 x 24.1cm (8 x 9.5") permitting safer and more sanitary deposit of wastes into the container. Opens quickly and easily by pressing the built-in release tab - no batteries required! Features a smooth 10.1 x 10.1cm (4 x 4") area on top for applying labels. Autoclavable lid is color-coded for easy identification.



Description	Dimensions	Cat. No.
Floor Disposal Carton	30.5L x 30.5W x 68.5H cm (12 x 12 x 27")	56617-801
Benchtop Disposal Carton	20.3L x 20.3W x 25.4H cm (8 x 8 x 10")	56617-804

Accessories		Cat. No.
Description		
Carton Cover for Floor Model Glass Disposal Carton		89088-054

VWR® COLLECTION

VWR® Sharps Container Systems, Red

Sharps container systems provide solutions for the safe and effective containment and disposal of contaminated needles, syringes, and other sharps. Choose from three different systems in a variety of sizes.

The stackable sharps containers are puncture-resistant and autoclave- and incinerator-safe. They feature transparent, locking lids, and needle removal ports. The tortuous path systems restrict hand entry.

The extended neck sharps containers feature a funneled vertical drop and extended handles. Puncture-resistant and autoclave- and incinerator-safe.



Description	Capacity	Dimensions	Cat. No.
Stackable Sharps Containers			
Medium	3.8 L (1 gal.)	25.4W x 17.8D x 12.7H cm (10 x 7 x 5")	19001-003
Large	7.6 L (2 gal.)	25.4W x 17.8D x 24.1H cm (10 x 7 x 9 1/2")	19001-006
X-Large	30.3 L (8 gal.)	28.6W x 28.6D x 34.9H cm (11 1/4 x 11 1/4 x 14")	19001-010
XX-Large	60.6 L (16 gal.)	28.6W x 28.6D x 64.8H cm (11 1/4 x 11 1/4 x 25 1/2")	19001-013

Prefabricated Quick-Disconnect Safety Disposal Cans, Justrite®

- Provide convenient, hands-free system for safe collection, transfer, and disposal of HPLC solvents
- Durable polyethylene safety cans are suitable for pump-fed or gravity-flow waste methods
- Safeguard against accidents and increase vapor and fire protection
- Outfitted with quick-disconnect intake and vapor release fittings
- Compliant with OSHA 29 CFR 1910.106; EPA 40 CFR 264.173
- FM approved



Ideal for HPLC applications, these durable polyethylene safety cans offer a hands-free way to safely collect liquid waste. Quick-disconnect fittings allow free flow of solvent into container through 1cm (3/8") tubing. Double fittings eliminate back pressure in liquid flow disposal line and provide controlled handling of vapors. Containers automatically vent between 3–5psig. Quick-disconnect mechanism offers a convenient means of detaching cans from the process without having to disengage any tubing already connected to the machine. Both coupling and disconnect are valved to prevent vapor release or solvent leakage. Translucent color makes checking liquid level easy.

Combination coalescing/carbon filters minimize odor by capturing 99% of liquid particulates released in the form of gaseous vapor. The two-stage vent filters are easy to install. They conveniently snap into the factory-installed quick disconnect fitting. The top portion of the filter is a convenient color-changing carbon filter that changes from deep purple to black as hydrocarbons are absorbed, indicating when replacement is necessary. The bottom portion is a coalescing filter that can be reused with new carbon filters several times before being replaced.

The HPLC manifold kit enables up to four waste lines from HPLC processes to be fed into a single intake fitting. Kit includes enough fittings to accommodate tube lines either 1.6mm (1/16") or 3.2mm (1/8") OD. Approximately 89mm (3 1/2") long and made of 316 stainless steel, manifold comes with a pre-installed stainless steel disconnect plug that fits into the stainless steel fitting.

FM approved.

Cans meet OSHA 29 CFR 1910.106(a)(29), NFPA Code 30 Section 4.3.3, and EPA 40 CFR 264.173.

Note: Filters cannot be used with 3.8L (1gal.) oval style can 82013-208.

Ordering Information: Cans are not supplied with tubing.

Capacity	Dimensions	O.D. x H	Liquid Intake Fitting/O-Ring Material	Vapor Release Fitting/O-Ring Material	Shipping Weight	Supplier No.	Cat. No.
Round Safety Disposal Cans							
7.6 L (2 gal.)	30.5O.D. x 37.5H cm (12 x 14 ^{3/4} ")	30.5 x 37.5 cm (12 x 14 ^{3/4} ")	Stainless Steel/Fluoropolymer Resin	Stainless Steel/Fluoropolymer Resin	3.2 kg (7 lbs.)	TF12752	37001-286

Accessories

Description	Supplier No.	Cat. No.
Coalescing/Carbon Filters For Cans with Polypropylene Vapor Release Fitting	28161	82001-070
Coalescing/Carbon Filters For Cans with Stainless Steel Vapor Release Fitting	28162	82001-072
Coalescing/Carbon Filters Carbon Filter Replacements	28157	82001-075
HPLC Manifold Kit	28168	82017-696

Nonmetallic Self-Closing Laboratory Containers, Justrite®

- Specially designed to resist acids and caustics
- Translucent, high-density polyethylene containers are marked in liters, quarts, and gallons for accurate filling and dispensing
- Spring-closing cap provides tight seal

Translucent, high-density polyethylene containers are specifically designed to resist acids and caustics. Marked in liters, quarts, and gallons to permit accurate filling and dispensing. Spring-closing cap provides a tight seal. Available with stainless steel or plated steel fittings.



Shape	Capacity	Dimensions	O.D. x H	Supplier No.	Cat. No.
Oval	3.8 L (1 gal.)	11.7W x 19.3L x 32.3H cm (4 ^{5/8} x 7 ^{7/8} x 12 ^{3/4} ")	—	12161	56610-190

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Nonmetallic Liquid Disposal Cans, Justrite®

- High-density polyethylene cans safely contain corrosives or liquid flammable wastes
- Flame arrester guards against outside ignition
- Built-in carbon insert provides grounding path
- Large openings are strategically placed for controlled filling and pouring
- Fixed-position handle keeps lid open for easier pouring
- When closed, the lid automatically vents at 5psig
- FM approved

High-density polyethylene cans for containment of corrosives and liquid flammable wastes. Large openings are strategically placed for controlled filling/pouring during disposal. Fixed-position handle allows lid to stay open for easier pouring. Closed, the cap automatically vents at 5psig. Flame arrester guards against outside ignition. Built-in carbon insert provides a grounding path. Plated steel fittings are ideal for use with flammable liquids. Stainless steel fittings are designed for use with corrosives.

FM approved.



Capacity	O.D. x H	Supplier No.	Cat. No.
7.6 L (2 gal.)	30.5 x 37.5 cm (12 x 14 ³ / ₄ "	14762	56610-174

Accessories			
Description	Supplier No.	Cat. No.	
Stainless Steel Flame Arrester	11406	56609-751	

Nonmetallic Laboratory Safety Cans, Justrite®

- Feature additional self-closing faucet that allows safe dispensing of hazardous liquids into test tubes, small flasks, and beakers
- Fill spout has self-closing pressure relief cap and double mesh flame arrester
- Current-carrying carbon insert imbedded in the can provides proper grounding
- 5cm (2") with faucet mounted above the bottom allows dispensing without lifting
- 18.9L (5gal.) cans have built-in vacuum breaker
- FM approved

High-density polyethylene safety cans for use on shelves or in tilt stands have self-closing faucet for convenient, controlled dispensing of hazardous liquids. Fill spout has self-closing pressure relief cap and double mesh flame arrester. The 18.9L (5gal.) cans have built-in vacuum breakers. Oval-shaped safety can **56609-586** has stainless steel faucet and round can **56609-589** has brass faucet, both mounted 5cm (2") above bottom. Tilt can **56609-588** with top faucet rests on a sturdy metal cradle which measures 36.8x35.5cm (14¹/₂x14") at the base.



Description	Capacity	Supplier No.	Cat. No.
Oval Shelf Can, Stainless Steel Faucet	3.8 L (1 gal.)	14169	56609-586

Type I Nonmetallic Safety Cans, Justrite®

- Inert and resistant to tough acids, corrosives, and heat
- Feature dual-density flame arrester, self-closing cap, and pressure relief mechanism
- Current-carrying carbon insert imbedded in the can provides proper grounding
- Insert prevents the creation of an arc during filling or pouring
- All cans are FM approved
- Round cans are UL and C-UL listed

High-density polyethylene cans are dent-, puncture-, and chip-resistant. Cans are inert to resist tough acids and corrosives as well as heat. They feature a conductive current-carrying carbon insert embedded in the rib of the container, completing a ground path between the cover assembly and the flame arrester in the spout. When used with a grounding strip, this provides proper grounding and prevents the creation of an arc during filling or pouring. The self-closing cap, pressure relief mechanism, and dual-density flame arrester work together to prevent ignition sources without restricting liquid flow in or out of the can.

Cans are available with steel-plated or stainless steel hardware. FM approved. Round cans are UL and C-UL listed.



Shape	Capacity	Dimensions	O.D. x H	Supplier No.	Cat. No.
Oval	1.9 L (0.5 gal.)	11.7W x 19.4L x 24.1H cm (4 ⁵ / ₈ x 7 ⁵ / ₈ x 9 ¹ / ₂ "	—	14065	56609-592

VWR COLLECTION

VWR® Autoclavable Biohazard Bags, Double Thick

Made of high-strength, highly temperature-resistant 3mil polypropylene plastic that is autoclavable to 135°C (275°F). Heavy-duty bags offer extra puncture resistance and high impact strength. Clearly labeled with proper biohazard warnings. Bright red color for quick identification. Each package includes 20.3cm (8") twist ties.



W x H	Cat. No.
61 x 76.2 cm (24 x 30")	14220-084
61 x 91.4 cm (24 x 36")	14220-086
96.5 x 122 cm (38 x 48")	14220-088

VWR COLLECTION

VWR® High Strength Autoclavable Polypropylene Biohazard Bags, 2 mil

These 2mil polypropylene bags meet the 480g tear test in both directions, performed per ASTM D1299-94A. Ideal hazardous waste collection and decontamination bag for handling and autoclaving of contaminated matter. Formulated to withstand stress at the side seams; strong enough to hold items in the laboratory. Printed bags are clearly labeled with proper biohazard warnings and have a temperature indicator patch. All bags are autoclavable to 135°C (275°F).

Bags meet all state requirements for hazardous waste handling, including Florida and Pennsylvania Department of Health codes.

Ordering Information: Supplied with 12.7cm (5") twist ties.



W x H	Cat. No.
Printed Bags	
61 x 76.2 cm (24 x 30")	14220-092
61 x 91.4 cm (24 x 36")	14220-096
63.5 x 88.9 cm (25 x 35")	14220-094
96.5 x 121.9 cm (38 x 48")	14220-098

VWR COLLECTION

VWR® Autoclavable Bags, 1.5 mil

Autoclave bags provide an efficient, safe solution for the messy and potentially dangerous process of disposing of biohazardous waste material.

High-strength, highly temperature-resistant polypropylene construction allows perfect adaptability to standard laboratory disposal routines, including steam autoclaving.

Ordering Information: Bags are available clear or red with proper biohazard warnings, or clear without label. Rated for use at 135°C (275°F). Twist ties included.



W x H	Cat. No.
Clear Bags, Plain	
30.5 x 61 cm (12 x 24")	14220-020

VWR COLLECTION

VWR® Autoclavable Biohazard Bags, 2 mil

Ideal for processing biohazardous materials that require autoclaving prior to disposal. Available with or without temperature indicator. High-integrity polypropylene bags withstand 135°C (275°F) maximum autoclave temperature. Twist-tie closure allows bag to expand and vent steam during cooling. Bags resist punctures, tears, and leaks, and meet the 165g dart drop standard performed as required by ASTM D1709-98. Each bag is imprinted with the universal biohazard symbol.



Indicator bags have the words "Contents Have Been Autoclaved" printed in a chemically active ink. Before autoclaving, the ink is white. After autoclaving is complete, it darkens, providing instant proof that biohazardous waste has been autoclaved. Indicator bags are available in red, orange, or yellow. Bags without indicators are clear.

W x H	Cat. No.
Red Bags with Indicator	
63.5 x 88.9 cm (25 x 35")	14220-032
91.4 x 114.3 cm (36 x 45")	14220-034

VWR COLLECTION

VWR® Autoclavable Bags, Nonhazardous Waste

Intended for use in autoclaving nonhazardous waste. Constructed of high-integrity polypropylene, these bags can withstand autoclaving temperatures up to 135°C (275°F). Heavy walls provide superior tear resistance and welded seals minimize risk of leakage. Bags meet the strength requirements of the 165g dart drop standard performed per ASTM D1709-98. All bags are clear.



W x H	Cat. No.
48.3 x 58.4 cm (19 x 23")	14220-040
63.5 x 88.9 cm (25 x 35")	14220-042
91.4 x 114.3 cm (36 x 45")	14220-044

VWR COLLECTION

VWR® Autoclavable Polyethylene Bags, Double Thick

High-molecular, high-density 4mil polyethylene plastic. Autoclave up to 121°C (250°F). A heavy-duty bag with extra puncture resistance and high impact strength. Ideal for sterilizing animal cages. Includes 20.3cm (8") twist ties. All bags are clear. Meets many state and local regulations.



W x H	Cat. No.
61 x 91.4 cm (24 x 36")	14232-184



SAFETY & APPAREL

EYE PROTECTION

HEARING PROTECTION

DISPOSABLE RESPIRATORS

GLOVES

PROTECTIVE CLOTHING

FIRST AID

SPILL CONTROL

VWR COLLECTION

VWR® Protective Eyewear with Wraparound Lens

- Lightweight design combines a sleek appearance with rugged durability
- Rubberized temple tips and integrated nosepiece for extra comfort
- Fits comfortably with half mask respirators
- Impact-resistant, scratch resistant polycarbonate lenses



Super lightweight wraparound eyewear for men and women combines a sleek appearance with rugged durability, features rubberized temple tips and integrated nosepiece. The impact resistant polycarbonate lenses provide 99.9% UV protection. Fits comfortably with half mask respirators.

ANSI Z87.1

Frame Color	Lens Tint	Cat. No.
Clear	Clear	89187-986

VWR COLLECTION

VWR® Protective Eyewear with Adjustable Temples

- Unique ratcheting temples lock into place for a custom fit
- Ultra lightweight nylon frames and soft PVC nose pads to prevent slipping
- 8 base spherical lenses provide excellent side protection
- Anti-fog coating extends lens life



Ultra-light weight nylon frame with soft PVC nose pads. Wrap-around sport styling, designed for men and women features eight base spherical lenses providing excellent side protection. Ratcheting/adjustable temples lock into place for a custom fit. The impact resistant polycarbonate lenses provide 99.9% UV protection and the scratch resistant coating. Anti-fog coating is applied to prolong the life of the lenses.

ANSI Z87.1

Frame Color	Lens Tint	Temple Color	Cat. No.
Black	Clear	Black	89187-984

VWR COLLECTION

VWR® Visitor Specs

- Designed to fit comfortably over most prescription glasses
- Wraparound styling offers unobstructed peripheral vision
- Contoured protective brow guard and molded-in comfort nose bridge
- Impact-resistant, scratch resistant polycarbonate lenses



Molded from 100% polycarbonate material, this Impact Resistant Eyewear features wide vision wrap-around styling provides unobstructed peripheral vision, a contoured protective brow-guard which helps prevent particles from entering from the brow area, and molded-in comfort nose bridge that provides a comfortable fit on the nose. Has a scratch-resistant coating on the lens, and fits over most Rx glasses. This eyewear offers a 99.9 % UV protections.

ANSI Z87.1

Frame Color	Lens Tint	Temple Color	Cat. No.
Clear	Clear	Clear	89187-988

VWR COLLECTION

VWR® Safety Glasses Holders

- Promote Safety in the Workplace

Keep safety eyewear readily available with these durable acrylic holders/boxes. Two sizes. Two styles. Magnetic-backed boxes mount instantly on metal surfaces, such as cabinets or hoods. May be screw-mounted (screws not included).



Description	L x W x H	Cat. No.
Magnetic Back	22.8 x 15.2 x 8.2 cm (9 x 6 x 3 1/4")	11376-412
Plain Back	22.8 x 15.2 x 8.2 cm (9 x 6 x 3 1/4")	11376-414
Plain Back	22.8 x 15.2 x 13.9 cm (9 x 6 x 5 1/2")	11376-416
Magnetic Back	22.8 x 15.2 x 13.9 cm (9 x 6 x 5 1/2")	11376-418

VWR COLLECTION

VWR® Lens Cleaning Wipes and Lens Cleaning Station

- Premoistened wipes clean without scratching, streaking, or residue
- Individually foil wrapped
- Disposable lens cleaning station contains lens cleaning solution and dry cleaning tissues
- Solution coats lenses with anti-fog, anti-static formula



Pre-moistened lens cleaning wipes clean safely and effectively without streaks, residue, or scratching.

Heavy-duty, biodegradable wipes also fight fog buildup. Wipes helps lenses stay clean longer and resist static. Dispenser box is convenient and portable for use anywhere, anytime. Not for use on contact lenses or specially coated optical lenses, such as anti-glare coatings.

Lens cleaning station includes one bottle of special antifog, antistatic solution and one pack of heavy-duty lens cleaning tissues. Solution cleans and coats the lens, and will not leave any excess liquid on the lens surface. Disposable stations can be positioned close to workers and easily moved.

Ordering Information: The 17.8x12.7cm (7x5") lens cleaning wipes are individually foil-packed and pre-saturated with lens cleaning solution. Packaged 120 wipes per box. Lens cleaning station contains one 3.5oz. bottle of lens cleaning solution and one pack of 15.2x12.7cm (6x5") heavy-duty lens cleaning tissues.

Description	Cat. No.
VWR® Pre-Moistened Lens Cleaning Wipes	89203-550
VWR® Disposable Lens Cleaning Station	89203-548

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Adaptec™ Series Protective Eyewear, Honeywell

- Three-position adjustable nose bridge keeps eyes centered in lens
- Self-adjusting nose pads independently conform to the wearer's face for greater comfort and stability
- Temples adjust for inclination and width without removing the eyewear
- Quick-change lens replacement system
- Utilizes exclusive Adaptec 4A+ coating, protecting against fog, scratches, UV, and static
- Meets ANSI Z87.1 and CSA Z94.3 requirements



Adjustable eyewear system is designed for a customized fit while still delivering excellent protection, superior comfort, premium optics, and a stylish look. Available in three sizes to provide the right protection, improved performance, and optical clarity for everyone in your workplace

Three-position adjustable nosebridge keeps eyes centered in lens. Self-adjusting nose pads independently conform to the wearer's face for greater comfort and stability. Temples adjust for inclination and width without removing the eyewear. Quick-change lens replacement system. Utilizes exclusive Adaptec™ 4A+ coating, protecting against fog, scratches, UV, and static. Translucent black frame color.

Meets ANSI Z87.1 and CSA Z94.3 requirements.

Size	Lens Tint	Supplier No.	Cat. No.
Narrow	Clear	T5900NTK	CA89204-590
Narrow	Smoke	T5900NTKS	CA89204-594
Regular	Clear	T5900LTK	CA89204-606
Regular	Smoke	T5900LTKS	CA89204-610
Wide	Clear	T5900WTK	CA89204-622
Wide	Smoke	T5900WTKS	CA89204-626

Uvex Genesis® Protective Eyewear, Honeywell Safety

- Dual 9-base wrap-around lens provides uncompromised peripheral vision and protection Elastomer brow guard diffuses and deflects impact
- Temple length and lens inclination are adjustable
- Soft fingers conform to any nasal profile
- Frames guaranteed for life
- Meets ANSI Z87+ and CSA Z94.3 standards



Designed for comfort and compliance, Uvex Genesis® eyewear combines a lightweight, resilient multi-material frame with a soft elastomer brow guard for unsurpassed impact resistance. The dual 9-base wraparound polycarbonate lens provides uninterrupted peripheral coverage and visibility. Soft, flexible "fingers" adjust and conform to any nasal profile, minimizing slippage. A three-position ratchet lens inclination system completes the custom fit. A ventilation channel between frame and lens vents the eye socket area for outstanding moisture/fog control. Lens replacement is quick, easy, and economical. Ultra-dura® lens coating provides superior scratch and chemical resistance. Uvextreme® lens coating provides antifog, anti-scratch, antistatic, and anti-UV protection. Dura-streme® lens coating features Ultra-dura® on the exterior and Uvextreme® on the interior for excellent protection and longevity.

Clear lenses are appropriate for most indoor applications. Gold mirror, amber, and espresso lenses minimize the effects of sunlight and glare. The SCT-Reflect 50 lenses are designed for use in work applications with varying light conditions. This tint is a comfortable solution for workers who move between shaded or indoor locations and direct sunlight. SCT-Vermillion lenses are ideal for indoor applications requiring contrast, such as inspection. SCT-Blue lenses help counteract sodium vapor lighting. The Patriot® RWB frame features a red, white, and blue design with miniature U.S. flags at temples and "United We Stand" inscribed on bottom right lens outside field of vision.

Eyewear meets military Vo ballistic test for impact and ANSI Z87+ and CSA Z94.3 standards.

Frame Color	Lens Coating	Lens Tint	Supplier No.	Cat. No.
Black	Uvextreme	SCT-Vermillion	S3210X	CA14216-002
Patriot RWB	Ultra-dura	Clear	S3260	CA14227-815
Patriot RWB	Ultra-dura	Gold Mirror	S3263	CA14227-822
Black	Uvextreme	SCT-50% Gray	S3213X	CA14231-228
Black	Ultra-dura	Clear	S3200	CA15001-568
Black	Uvextreme	Clear	S3200X	CA15001-570
Black	Uvextreme	Espresso	S3201X	CA15001-574
Black	Ultra-dura	Amber	S3202	CA15001-576
Black	Ultra-dura	Gold Mirror	S3203	CA15001-578
Black	Ultra-dura	SCT-Reflect 50	S3204	CA15001-580
Earth	Ultra-dura	Clear	S3220	CA15001-582
Earth	Uvextreme	Espresso	S3221X	CA15001-588
Earth	Ultra-dura	Gold Mirror	S3223	CA15001-592
Earth	Ultra-dura	SCT-Reflect 50	S3224	CA15001-594
Vapor Blue	Ultra-dura	Clear	S3240	CA15001-610
Vapor Blue	Uvextreme	Clear	S3240X	CA15001-612
Vapor Blue	Uvextreme	Espresso	S3241X	CA15001-616
Vapor Blue	Ultra-dura	Gold Mirror	S3243	CA15001-620
Vapor Blue	Ultra-dura	SCT-Reflect 50	S3244	CA15001-622
Black	Dura-streme	Clear	S3200D	CA94023-916

Continued from previous page

Accessories		
Description	Supplier No.	Cat. No.
SCT-Vermillion Replacement Lenses	S6910X	CA14216-006
Clear Replacement Lenses	S6900	CA15001-638
Clear Replacement Lenses	S6900X	CA15001-640

W Series Safety Eyewear for Women, Honeywell Safety

- Incorporates high style, all-day comfort, and compliance
- Smaller sizing is tailored to fit women's facial features, including vertical brow, fuller cheeks, and narrower bridge
- Features polycarbonate lenses and adjustable nosepieces
- Meets ANSI Z87+ high-impact standards



Designed specifically to fit female facial contours, the W eyewear series combines smaller sizes, modern designs, and updated styles to provide comfortable, extended-use protection. Safety eyewear is available with a scratch-resistant hardcoat or the Fog-Ban® anti-fog coating.

The W100 series glasses feature smooth temples with an optical curve highlighted by a rhinestone/metallic accent, and soft, adjustable nosepieces. All W100 frames are clear frosted, with the exception of 89092-188, which feature a brown frosted frame. The W200 series glasses feature traditional temples with an optical curve and molded nosepieces. All W200 frames are dusty rose colored. The W300 series glasses are equipped with tortoise shell temples, universal molded nosepieces, and a 7-base, single polycarbonate lens.

Eyeglasses meet ANSI Z87+ high impact standards.

Description	Lens Coating	Lens Tint	Supplier No.	Cat. No.
W100 Series	Fog-Ban®	Clear	W101	CA89092-186
W300 Series	Anti-Scratch	Clear	W300	CA95052-820
W300 Series	Anti-Scratch	Espresso	W301	CA95052-822

VWR® COLLECTION

VWR® Basic Protection SPP Bouffant Caps

- Economical First Line Barrier
- Non-Linting

Bouffant caps are manufactured from a spunbonded polypropylene (SPP) fabric that is strong, lightweight, and breathable. They protect against dirt, grime, and certain dry particulates in nonhazardous environments. These general-purpose garments are ideal for less critical areas or pre-gowning entry rooms. Available in latex or latex-free formulations.

Bouffant caps are rigorously tested and manufactured in an ISO Certified facility under stringent process controls to ensure that each garment meets exacting quality standards and performs to specification. Lot controlled and validated through independent lab testing.



Description	Diameter	Color	Cat. No.
Latex-Free	53 cm (21")	White	89107-768
Latex-Free	53 cm (21")	Blue	89131-620
Latex-Free	61 cm (24")	White	89107-770
Latex-Free	61 cm (24")	Blue	89131-622
Latex-Free	71 cm (28")	White	89186-064
With Latex	53 cm (21")	White	89107-772
With Latex	61 cm (24")	White	89107-774

VWR® COLLECTION

VWR® Basic Protection SPP Beard Covers

- Economical First Line Barrier
- Non-Linting

Beard covers are manufactured from a spunbonded polypropylene (SPP) fabric that is strong, lightweight, and breathable. They protect against dirt, grime, and certain dry particulates in nonhazardous environments. These general-purpose garments are ideal for less critical areas or pre-gowning entry rooms.

Elastic band provides secure fit. Available in latex or latex-free formulation.

Beard covers are rigorously tested and manufactured in an ISO Certified facility under stringent process controls to ensure that each garment meets exacting quality standards and performs to specification. Lot controlled and validated through independent lab testing.



Description	Size	Color	Cat. No.
With Latex	Universal	White	89107-776
Latex-Free	Universal	White	89107-778
Latex-Free	X-Large (18")	White	89218-950

E-A-Rflex™ Banded Hearing Protectors, 3M™

3M™ E-A-Rflex™ Earplugs feature premolded earplugs with a swept-back, triple flange design.



Description	Color	Noise Reduction Rating	Supplier No.	Cat. No.
Hearing Protector with UltraFit™ Tips	Blue/Yellow	27 dB	350-1100	CA55666-289

VWR COLLECTION

VWR® Maximum Protection Antifog Full Face Shields

- Protect Front and Side of Face from Fluid Splash
- Low-Glare Shield Provides Distortion-Free Vision

Antifog full face shields provide total facial splash protection and can be worn for extended periods. Face shields feature an antifog coating and fit easily over eyewear. A soft, polyurethane foam sponge fits snugly against the forehead. Equipped with elastic or Velcro® headband for a secure fit. Latex-free.



Face shields are rigorously tested and manufactured in an ISO Certified facility under stringent process controls to ensure that each product meets exacting quality standards. Products are validated through independent lab testing.

Ordering Information: Packaged 10 face shields per pack, 5 packs per box, 4 boxes per case.

Dimensions	33.5L x 19H cm (13 ³ / ₁₆ x 7 ¹ / ₂ ")
Thickness	0.18 mm, ±0.02

Description	Cat. No.
Elastic Headstrap	414004-679
Velcro® Headstrap	414004-866

8210 N95 Respirator, 3M™

- Provides reliable worker protection against certain solid and liquid aerosols that do not contain oil
- Provides minimum filtration efficiency of 95%
- Lightweight construction for greater worker comfort
- Adjustable noseclip for custom fit and secure seal



Economical respirator provides reliable worker protection against certain solid and liquid aerosols that do not contain oil. Provides minimum filtration efficiency of 95%. Lightweight construction for greater worker comfort. Adjustable noseclip for custom fit and secure seal.

Caution: All 3M™ products must be used in accordance with OSHA regulations and the user instructions, warnings, and limitations accompanying each product.

Description	Supplier No.	Cat. No.
8210 N95 Respirator	8210	CA56222-362

SAF-T-FIT™ Plus N1115 Disposable Respirators, Honeywell Safety

- Offer latex-free N95 protection from particulate aerosols free of oil
- Adjustable boomerang nose seal fits securely and comfortably
- Color-coded for quick size identification
- NIOSH 95 approved



Ideal for medical, grinding, polishing, sanding, woodworking, and sweeping applications or other dusty operations. For use with particulate aerosols free of oil. Respirators feature an adjustable boomerang nose seal for a secure fit and added comfort. Nose seal is color-coded for easy size recognition. Latex-free.

Size	Nose Seal Color	Supplier No.	Cat. No.
Small	Red	14110390	CA89013-594

VWR COLLECTION

VWR® N95 Disposable Respirators

- Meet NIOSH Requirements for Minimum Filter Efficiency of 95% Against 0.3µm Particles
- Provide Protection Against Solid and Liquid Particles That Do Not Contain Oil
- Lightweight Construction Allows for Comfortable, Extended Use



Respirators combine excellent safety and comfort features to ensure reliable protection and a lightweight, secure fit. An adjustable noseclip provides a secure seal against the user's face. Respirators are available plain or with an exhalation valve that reduces heat and humidity buildup within the mask.

89201-508

Description	Cat. No.
N95 Respirator	89201-508

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VFlex™ N95 Particulate Respirators, 3M™

- Unique embossed 'V' shapes on the front panel keep filter media away from the mouth
- Pleats expand to provide a comfortable seal while giving a spacious feel
- Pleats flex with mouth movement for easier talking
- Tabs on the side are designed as handles
- Compatible with a variety of 3M eyewear and hearing protection



Respirators feature unique embossed 'V' shapes on the front panel to keep filter media away from the mouth. Pleats expand to provide a comfortable seal while giving a spacious feel. The pleats flex with mouth movement for easier talking. Tabs on the side are designed as handles for easy positioning of the respirator on the face to achieve a comfortable fit. Compatible with a variety of 3M eyewear and hearing protection. Fold flat for convenient storage. The respirators are NIOSH approved.

Size	Supplier No.	Cat. No.
Standard	9105	CA89166-430

VWR® COLLECTION

VWR® Soft Nitrile Examination Gloves

- Ambidextrous Gloves Protect Hands From Biohazards and a Broad Range of Chemicals
- Made From Premium Nitrile for High Quality and Consistency
- Fully Textured Finish and Beaded Cuff



Ideal for all industrial and laboratory tasks, these powder-free gloves are made of premium compounded nitrile for tactile sensitivity and comfort. Gloves protect against biohazards and a broad range of chemicals. Composition is 100% latex-free to eliminate adverse reactions associated with natural rubber latex proteins. Examination gloves feature textured fingers and a rolled, beaded cuff. Ambidextrous.

Cuff Thickness	2.5 mil
Disposable/Reusable	Disposable
Finger Thickness	3.1 mil
Palm Thickness	3.1 mil
Powdered/Powder-Free	Powder-Free

Size	Length	Color	Cat. No.
X-Small	22.9 cm (9")	Violet Blue	89038-267
Small	22.9 cm (9")	Violet Blue	89038-268
Medium	22.9 cm (9")	Violet Blue	89038-270
Large	22.9 cm (9")	Violet Blue	89038-272
X-Large	22.9 cm (9")	Violet Blue	89038-274

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VWR® COLLECTION

VWR® Powder-Free Nitrile Examination Gloves

- Ambidextrous gloves are extra soft and comfortable for every day use
- Protect hands from biohazards and a broad range of chemicals
- Beaded cuff allows easy donning



Ideal for use in industrial and laboratory applications. Made of premium compounded nitrile for high manufacturing quality measures and product consistency. Gloves protect against biohazards and a broad range of chemicals. Composition is 100% latex-free to eliminate adverse reactions associated with natural rubber latex proteins. Textured gloves feature rolled, beaded cuffs. Ambidextrous and nonsterile.

Cuff Thickness	3.9 mil
Disposable/Reusable	Disposable
Finger Thickness	5.5 mil
Palm Thickness	4.7 mil

Size	Length	Color	Cat. No.
X-Small	22.9 cm (9")	Blue	82026-423
Small	22.9 cm (9")	Blue	82026-424
Medium	22.9 cm (9")	Blue	82026-426
Large	22.9 cm (9")	Blue	82026-428
X-Large	22.9 cm (9")	Blue	82026-430

VWR® COLLECTION

VWR® MICROGRIP® PURPLE NITRILE® Poly-Coated Powder-Free Gloves

- Durable gloves are microtextured to enhance grip
- Consistent polymer coating eases donning and removal
- Feature AQL level of 1.5 for pinhole protection
- Length: 26cm (10")
- Thickness: 4.72 mil (finger), 4.33 mil (palm)



PURPLE NITRILE® formulation provides excellent strength and durability. Latex-free. Microtextured for enhanced grip. Polymer coating for easy donning. Ambidextrous. Beaded cuff.

Ordering Information: Packaged 100 gloves/dispenser box.

Disposable/Reusable	Disposable
Finger Thickness	4.72 mil
Palm Thickness	4.33 mil
Powdered/Powder-Free	Powder-Free

Size	Length	Color	Cat. No.
X-Small	25.4 cm (10")	Purple	CA40101-440
Small	25.4 cm (10")	Purple	CA40101-344
Medium	25.4 cm (10")	Purple	CA40101-346
Large	25.4 cm (10")	Purple	CA40101-348
X-Large	25.4 cm (10")	Purple	CA40101-350

XCEED™ Powder-Free Nitrile Examination Gloves, Microflex®

- First Ergonomic Certified Exam Glove in the industry
- Superior barrier protection
- Scientifically designed to reduce muscle effort

These soft gloves feature excellent tactile sensitivity, which helps reduce hand fatigue. Improved formulation offers increased strength and durability. Packaged in value-sized boxes that are environmentally friendly and time- and cost-efficient. Gloves feature textured fingertips and beaded cuff. Ambidextrous and nonsterile.



Cuff Thickness	2.4 mil
Disposable/Reusable	Disposable
Finger Thickness	3.5 mil
Palm Thickness	2.8 mil
Powdered/Powder-Free	Powder-Free

Size	Length	Color	Supplier No.	Cat. No.
X-Small	23.5 cm (9 1/4")	Blue	XC-310-XS	CA89174-538
Small	23.5 cm (9 1/4")	Blue	XC-310-S	CA89174-540
Medium	23.5 cm (9 1/4")	Blue	XC-310-M	CA89174-542
Large	23.5 cm (9 1/4")	Blue	XC-310-L	CA89174-544
X-Large	23.5 cm (9 1/4")	Blue	XC-310-XL	CA89174-546

Ultraform® Powder-Free Nitrile Exam Gloves, Microflex®

- Textured fingertips
- Unique soft formulation forms to your hand

Ultraform® Powder-Free Nitrile Exam Gloves have textured Fingertips and its unique soft formulation forms to your hand effortlessly as if it is second skin. In field tests users wearing Ultraform® actually experienced an increase in fine motor task performance compared to a bare hand.



89235-876

Ordering Information: 3,000 gloves per case, 300 gloves per dispenser box by weight (*250 XL).

Cuff Thickness	2 mil
Disposable/Reusable	Disposable
Finger Thickness	3.2 mil

Size	Length	Color	Supplier No.	Cat. No.	Price
X-Small	23 cm (9")	Cobalt Blue	UF-524-XS	CA89235-576	Pk. 300/ 28.51
Small	23 cm (9")	Cobalt Blue	UF-524-S	CA89235-578	Pk. 300/ 28.51
Medium	23 cm (9")	Cobalt Blue	UF-524-M	CA89235-580	Pk. 300/ 28.51
Large	23 cm (9")	Cobalt Blue	UF-524-L	CA89235-582	Pk. 300/ 28.51
X-Large	23 cm (9")	Cobalt Blue	UF-524-XL	CA89235-584	Pk. 250/ 28.51

KIMBERLY-CLARK® STERLING™ Nitrile and STERLING™ Nitrile-XTRA™ Exam Gloves, Kimberly-Clark Professional®

- Excellent tactile sensitivity allows easy handling of delicate instruments
- Textured fingertips and beaded cuff
- Length: 24.1 cm (9 1/2")
- Thickness: 3.5mil (finger), 3.1 mil (palm), 2.8mil (cuff)
- Color: gray

Powder-free, latex-free gloves provide the protection of nitrile with sensitivity comparable to natural rubber latex. Excellent tactile sensitivity allows easy handling of delicate instruments. Ambidextrous. Beaded cuff. Textured fingertips.

Gloves are tested with chemotherapy drugs according to ASTM D6978.

Ordering Information: For the 24.1 cm (9 1/2") gloves, sizes X-Small through Large are packaged 200 gloves per dispenser box to save storage space and reduce waste.



Cuff Thickness	2.8 mil
Disposable/Reusable	Disposable
Environmentally Preferable Attribute	Product and/or packaging is recyclable or reduces waste
Finger Thickness	3.5 mil
Palm Thickness	3.1 mil
Powdered/Powder-Free	Powder-Free

Size	Length	Thickness	Color	Style	Supplier No.	Cat. No.
STERLING™ Nitrile						
X-Small	24.1 cm (9 1/2")		Gray	Nitrile	50705	CA89140-816
Small	24.1 cm (9 1/2")		Gray	Nitrile	50706	CA89140-818
Medium	24.1 cm (9 1/2")		Gray	Nitrile	50707	CA89140-820
Large	24.1 cm (9 1/2")		Gray	Nitrile	50708	CA89140-822
X-Large	24.1 cm (9 1/2")		Gray	Nitrile	50709	CA89140-824
STERLING™ Nitrile-XTRA™						
X-Small	30.5 cm (12")	3.5 mil	Gray	Nitrile-XTRA®	53137	CA94023-906
Small	30.5 cm (12")	3.5 mil	Gray	Nitrile-XTRA®	53138	CA94023-908
Medium	30.5 cm (12")	3.5 mil	Gray	Nitrile-XTRA®	53139	CA94023-910
Large	30.5 cm (12")	3.5 mil	Gray	Nitrile-XTRA®	53140	CA94023-912
X-Large	30.5 cm (12")	3.5 mil	Gray	Nitrile-XTRA®	53141	CA94023-914

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At VWR, we recognize that being a good corporate citizen is in the best interest of our customers, our community, and our company. Therefore, we follow the three primary goals as defined by the United Nations for sustainability: Environmental Protection, Social Impact, and Economic Growth. For more information, visit ca.vwr.com/sustainability.



Sol-Vex® Nitrile Gloves, Ansell

Chemical-resistant gloves are suitable for chemical processing, food processing, aerospace and automotive degreasing, machining operations using cutting oil and coolants, electronics, and other applications.

Gloves feature a curved finger design and contoured palm that helps to reduce fatigue. Full cut allows for easy donning and doffing. Embossed texture improves grip for easier handling of wet objects. Tough nitrile compound provides long wear and good protection against abrasion, cuts, snags, and punctures. Strong resistance to degradation ensures that gloves will not weaken or swell. Optional cotton flock lining absorbs perspiration and makes donning and doffing easier. Gloves are free of protein allergens and will not promote contact dermatitis. Hand-specific. Powder-free. Straight cuffs. Color: green.

Component materials comply with FDA regulations for food contact.



Disposable/Reusable	Disposable
Powdered/Powder-Free	Powder-Free

Supplier No.	Cat. No.
37-145-7	CA32890-088
37-145-8	CA32890-090
37-145-9	CA32890-092
3714511100	CA32890-094
37-145-11	CA32890-096
117141	CA32890-106
3716511090	CA32890-120
3716511100	CA32890-122
3716511110	CA32890-124
3717511060	CA-32890-126
3717511070	CA-32890-128
3717511080	CA-32890-130
3717511090	CA-32890-132
3717511100	CA-32890-134
3717511110	CA-32890-136

Sol-Vex® II Unsupported Nitrile Gloves, Ansell

Chemical-resistant gloves are suitable for meat processing, parts degreasing, machining operations, wiping down parts and machinery, and handling hoses, belts, and steel chains. Gloves feature form-fitting fingers and a tapered wrist for a more comfortable, ergonomic fit. Tough nitrile compound provides long wear and good protection against abrasion, cuts, snags, and punctures. Strong resistance to degradation ensures that gloves will not weaken or swell. Gloves are free of protein allergens and will not promote contact dermatitis. Hand-specific. Powder-free. Straight cuff edge. Feature a raised-diamond pattern for superior grip on wet material. Color: green. Gloves are available unlined or with cotton flocked lining.

Component materials comply with FDA regulations for food contact.



Disposable/Reusable	Disposable
Powdered/Powder-Free	Powder-Free

Supplier No.	Cat. No.
117721	80092-500
117722	80092-502
117723	80092-504
117724	80092-506
117725	80092-508

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VWR® Powder-Free Latex Examination Gloves

- Manufactured From Natural Rubber Latex
- Ambidextrous Design with Straight Fingers, Beaded Cuff, and Fully Textured Finish
- For Single Use Only

Powder-free examination gloves are manufactured from premium quality natural rubber latex. They are engineered to provide reliable, durable, and comfortable hand protection in laboratory environments. These examination-grade gloves are fully textured for a secure grip, and feature straight fingers and beaded cuffs. Gloves are rigorously tested and manufactured under stringent process controls according to ISO 9001 and ISO 13488 to ensure that each product meets exacting quality standards and performs to specification. Products are lot controlled and validated through independent lab testing.



Cuff Thickness	3.9 mil (0.08–0.12 mm)
Disposable/Reusable	Disposable
Finger Thickness	6.3 mil (0.13–0.19 mm)
Palm Thickness	5.5 mil (0.11–0.17 mm)
Powdered/Powder-Free	Powder-Free

Size	Length	Color	Cat. No.
X-Small	24.1 cm (9 1/2")	Natural Yellow	414004-428
Small	24.1 cm (9 1/2")	Natural Yellow	414004-429
Medium	24.1 cm (9 1/2")	Natural Yellow	414004-430
Large	24.1 cm (9 1/2")	Natural Yellow	414004-431
X-Large	24.1 cm (9 1/2")	Natural Yellow	414004-432

Black Dragon® Powder-Free Black Latex Examination Gloves, Microflex

- Offer comfort and strength in a distinctive black gloves that provides better framing effect
- Meet maximum powder and maximum water extractable protein requirements
- Fully textured finish and beaded cuff

Black Dragon® gloves are easy to slip on and the fully textured surface gives a better and more secure grip on tools and equipment.

Combination of comfort and strength in a distinct black glove. Fully textured for excellent tactile sensitivity. Meets maximum powder and maximum water extractable protein requirements.

Black Dragon® gloves are manufactured under an ISO 13485 quality system and are lab and field tested to meet or exceed stringent ASTM criterion to withstand pinhole defects for unsurpassed protection and peace of mind.

Ordering Information: Packaged 100 per box.



Cuff Thickness	3.9 mil
Disposable/Reusable	Disposable
Finger Thickness	5.1 mil
Palm Thickness	4.7 mil
Powdered/Powder-Free	Powder-Free

Size	Length	Color	Supplier No.	Cat. No.
X-Small	24.5 cm (95/8")	Black	BD-1000-PF-XS	CA89173-086
Small	24.5 cm (95/8")	Black	BD-1001-PF-S	CA89173-088
Medium	24.5 cm (95/8")	Black	BD-1002-PF-M	CA89173-090
Large	24.5 cm (95/8")	Black	BD-1003-PF-L	CA89173-092
X-Large	24.5 cm (95/8")	Black	BD-1004-PF-XL	CA89173-094

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Memphis Glove® Sensatouch™ Powder-Free Disposable Vinyl Gloves, MCR Safety

- Medical grade PS
- Ideal for electronics assembly, food processing, laboratory work, and general pharmaceutical use
- Component materials comply with FDA regulations for food contact

Medical grade vinyl gloves are ideal for electronics assembly, food processing, laboratory work, and general pharmaceutical use. Ambidextrous. Powder-free. Rolled cuff. Smooth finish.

Component materials comply with FDA regulations for food contact.

Ordering Information: Gloves are packaged in dispenser boxes, 100 gloves per box.



Disposable/Reusable	Disposable
Powdered/Powder-Free	Powder-Free

Size	Length	Thickness	Color	Supplier No.	Cat. No.
Large	24.1 cm (9 1/2")	5 mil	Clear	5010L	80081-293
Medium	24.1 cm (9 1/2")	5 mil	Clear	5010M	80081-295
Small	24.1 cm (9 1/2")	5 mil	Clear	5010S	80081-297
X-Large	24.1 cm (9 1/2")	5 mil	Clear	5010XL	80081-299

Butyl Gloves, Honeywell Safety

- High permeation resistance to gas and water vapors
- Resistant to oxygenated solvents and most oxidizing chemicals
- Remain flexible and sensitive, even at lower temperatures
- Hand-specific, curved design improves fit and comfort
- Rolled cuff

Butyl gloves exhibit high permeation resistance to gas and water vapors. Resistant to oxygenated solvents and most oxidizing chemicals. Gloves stay flexible and sensitive, even at lower temperatures. Curved finger and hand design provide a comfortable fit. Gloves with a rough finish are excellent for wet applications. Rolled cuff. Hand-specific.



Size	Length	Thickness	Color	Supplier No.	Cat. No.
Smooth Finish					
10	28 cm (11")	13 mil	Black	B131/10	CA32887-914
11	28 cm (11")	13 mil	Black	B131/11	CA32887-916
7	28 cm (11")	13 mil	Black	B131/7	CA32887-918
8	28 cm (11")	13 mil	Black	B131/8	CA32887-920
10	28 cm (11")	16 mil	Black	B161/10	CA32887-921
9	28 cm (11")	13 mil	Black	B131/9	CA32887-922
7	28 cm (11")	16 mil	Black	B161/7	CA32887-929
8	28 cm (11")	16 mil	Black	B161/8	CA32887-931
9	28 cm (11")	16 mil	Black	B161/9	CA32887-935
11	28 cm (11")	16 mil	Black	B161/11	CA32887-936
10	35.6 cm (14")	17 mil	Black	B174/10	CA32887-946
11	35.6 cm (14")	17 mil	Black	B174/11	CA32887-948
9	35.6 cm (14")	17 mil	Black	B174/9	CA32887-949
8	35.6 cm (14")	17 mil	Black	B174/8	CA32887-950
10	35.6 cm (14")	32 mil	Black	B324/10	CA32887-960
11	35.6 cm (14")	32 mil	Black	B324/11	CA32887-962
8	35.6 cm (14")	32 mil	Black	B324/8	CA32887-970
9	35.6 cm (14")	32 mil	Black	B324/9	CA32887-972
Rough Finish					
10	28 cm (11")	13 mil	Black	B131R/10	CA32887-904
11	28 cm (11")	13 mil	Black	B131R/11	CA32887-906
7	28 cm (11")	13 mil	Black	B131R/7	CA32887-908
8	28 cm (11")	13 mil	Black	B131R/8	CA32887-910
9	28 cm (11")	13 mil	Black	B131R/9	CA32887-912
10	35.6 cm (14")	17 mil	Black	B174R/10	CA32887-938
11	35.6 cm (14")	17 mil	Black	B174R/11	CA32887-940
8	35.6 cm (14")	17 mil	Black	B174R/8	CA32887-942
9	35.6 cm (14")	17 mil	Black	B174R/9	CA32887-944
10	35.6 cm (14")	32 mil	Black	B324R/10	CA32887-952
11	35.6 cm (14")	32 mil	Black	B324R/11	CA32887-954
8	35.6 cm (14")	32 mil	Black	B324R/8	CA32887-956
9	35.6 cm (14")	32 mil	Black	B324R/9	CA32887-958

Unsupported Neoprene Gloves, Ansell

Style 29-865 neoprene gloves offer broad-spectrum protection with excellent resistance to a wide range of chemicals, including oils, acids, caustics, and solvents. Flock-lined gloves are case-hardened to increase chemical and abrasion resistance over ordinary neoprene gloves. Gloves are suitable for petrochemicals and refining operations, cleaning and degreasing, and electronics applications. Hand-specific. Straight cuff edge. Embossed finish.



Supplier No.	Cat. No.
116311	32890-052
116312	32890-054
116313	32890-056
116314	32890-058
116315	32890-060

Silver Shield®/4H® Gloves, Honeywell Safety

- Resist permeation of more than 280 chemicals
- Compacted, flexible five-layer film is 2.7mil thick
- Protect hands in chemical and petrochemical laboratories, spill cleanups, and other hazardous applications
- Ambidextrous, disposable gloves can be used as secondary inner layer for maximum protection

Gloves feature a five-layer fabric compacted to a thickness of 2.7mil. Laminating a high-energy polymer (EVOH) with a low-energy polymer (PE) creates a fabric impervious to at least 90% of all organic chemicals for four hours at 35°C. Each layer acts as a barrier against various epoxies and industrial chemicals.

Made of a unique, flexible film, Silver Shield®/4H® gloves can be worn by themselves or as permeation-resistant liners under other protective gloves. They are lightweight, ambidextrous, and allow for maximum worker protection, yet do not contain chemical accelerants that can cause allergic reactions. Smooth finish.



Size	Length	Thickness	Supplier No.	Cat. No.
11	40.6 cm (16")	2.7 mil	SSG/11	CA11000-642
10	40.6 cm (16")	2.7 mil	SSG/10	CA11000-644
9	40.6 cm (16")	2.7 mil	SSG/9	CA11000-646
8	36.8 cm (14 1/2")	2.7 mil	SSG/8	CA11000-648
7	36.8 cm (14 1/2")	2.7 mil	SSG/7	CA11000-650
6	36.8 cm (14 1/2")	2.7 mil	SSG/6	CA11000-652
10	73.7 cm (29")		SSG29/10	CA89031-950

JACKSON SAFETY® G80 NITRILE Chemical Resistant Gloves, KIMBERLY-CLARK PROFESSIONAL®

Chemical resistant gloves offer protection against acids, caustics, bases, solvents, and other aqueous solutions. Quality and design improvements to both the product and packaging provide enhanced chemical resistance, improved durability and comfort, and environmentally improved packaging.

Gloves are manufactured from a modified nitrile formulation for increased durability and enhanced chemical resistance. All gloves feature a textured palm and fingertips for an enhanced grip. A consistent cotton flock lining ensures added comfort, and an improved AQL of 0.65 (versus the previous rating of 1.5) results in fewer pinholes. Approved for food contact in the U.S. and Canada. Environmentally responsible packaging utilizes 96% fewer poly bags. Gloves are now supplied in 5 bulk-packed poly bags, with 12 pairs per bag for a total of 60 pairs (120 gloves).



Supplier No.	Cat. No.
94445	89135-402
94446	89135-404
94447	89135-406
94448	89135-408
94449	89135-410

Whizard® ValueSeries Cut-Resistant Gloves, Wells Lamont®

- Wireless gloves are knitted with high-performance Spectra Guard™ fiber for cut and abrasion resistance
- Fiber is 10 times stronger than steel yet very lightweight
- Superior tactile sensitivity
- CFR 21-approved for food contact
- White with colored overedge for easy size identification

Light- to medium-duty gloves are wireless and made of Spectra Guard® fiber for cut and abrasion resistance. Gloves also feature superior tactile sensitivity and a colored over-edge for easy size identification. Ambidextrous. Color: white.

Caution: Although these gloves are cut-resistant, they are not cut-proof. Do not subject to high-speed or highly serrated blades. Always disconnect power before cleaning or removing slicer blades.



Supplier No.	Cat. No.
135027	80076-274
135028	80076-276
135029	80076-278
135030	80076-280
135031	80076-282
135258	80076-284
135259	80076-286
135260	80076-288
135261	80076-290
135262	80076-292

Custom Manufacturing

In addition to the products listed in our catalogue, Anachemia has the manufacturing capabilities to produce almost any chemical formulation or custom package size or type that your organization may need. Whether your goal is to reduce your staff's time spent preparing formulations used in your lab or to have product pre-packaged in single dose units, Anachemia's experienced chemical manufacturing personnel can assist you.

Contact us at **(800) 361-0209** to request a quote on custom chemical products.



VWR® CryoGuard Cryogenic Gloves

- Multi-layer, insulated gloves are lightweight, flexible, and durable
- Allow for dexterity when working in temperatures as low as -196°C.
- Two layers of insulation material bonded together at the edges to trap insulating air without adding additional bulk
- Inner lining wicks moisture from the skin
- Waterproof gloves incorporate a seamless 100% waterproof layer
- All wrist-length gloves also incorporate an uninsulated knit cuff

Multi-layer, insulated gloves are designed to protect hands and arms from the hazards of working with cryogenic materials. They are lightweight, flexible, and durable. They can be worn for extended periods of time, as they are extremely warm and allow for dexterity when working in temperatures as low as -196°C.

Water-resistant and waterproof gloves feature two layers of insulation material bonded together at the edges to trap insulating air without adding additional bulk and an inner lining to wick away moisture from the skin. Waterproof gloves incorporate a thin, seamless, 100% waterproof inner protective layer. All wrist-length gloves also incorporate an uninsulated knit cuff.

Note: No gloves are intended for immersion in liquid nitrogen.



Size	Length	Cat. No.
Water-Resistant Gloves		
Small	Wrist	97008-196
Medium	Wrist	97008-198
Large	Wrist	97008-200
X-Large	Wrist	97008-202
Small	Mid-Arm	97008-204
Medium	Mid-Arm	97008-206
Large	Mid-Arm	97008-208
X-Large	Mid-Arm	97008-210
Small	Elbow	97008-212
Medium	Elbow	97008-214
Large	Elbow	97008-216
X-Large	Elbow	97008-218
Small	Shoulder	97008-220
Medium	Shoulder	97008-222
Large	Shoulder	97008-224
X-Large	Shoulder	97008-226

Size	Length	Cat. No.
Waterproof Gloves		
Small	Wrist	97008-228
Medium	Wrist	97008-230
Large	Wrist	97008-232
X-Large	Wrist	97008-234
Small	Mid-Arm	97008-236
Medium	Mid-Arm	97008-238
Large	Mid-Arm	97008-240
X-Large	Mid-Arm	97008-242
Small	Elbow	97008-244
Medium	Elbow	97008-246
Large	Elbow	97008-248
X-Large	Elbow	97008-250
Small	Shoulder	97008-252
Medium	Shoulder	97008-254
Large	Shoulder	97008-256
X-Large	Shoulder	97008-258

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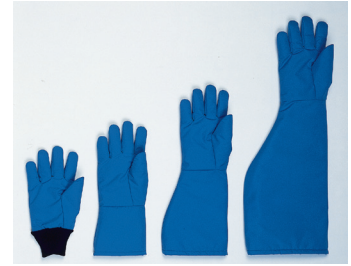
Cryo-Gloves® Low-Temperature Gloves, Tempshield

- Lightweight, breathable, comfortable
- Provide warmth while retaining flexibility, even after prolonged exposure to cryogenic atmospheres
- Offer superior thermal protection when working with ultra-low temperature freezers, blast freezers, dry ice, and in coldrooms
- Also for use with LNG (liquefied natural gas), liquid helium, and liquid oxygen in enclosed systems

Protect hands and arms against ultracold temperatures to -196°C (-321°F). An essential accessory when working with LN₂, ultra-low temperature freezers, blast freezers, dry ice, and in coldrooms. Also for use with LNG (liquefied natural gas), liquid helium, and liquid oxygen in enclosed systems.

Lightweight, breathable, and comfortable gloves provide warmth while retaining flexibility even after prolonged exposure to cryogenic atmospheres. Gloves allow sufficient dexterity to handle small objects and controls. Waterproof gloves should be selected to protect the user from cryogenic liquids and vapors.

Caution: Gloves are not for immersion in LN₂.



Size	Length	Color	Style	Supplier No.	Cat. No.
Low-Temperature Gloves					
Small	29–32.5 cm (11¼–12½")	Pink	Wrist Length	P-WRS	89166-339
Medium	29–32.5 cm (11¼–12½")	Pink	Wrist Length	P-WRM	89166-343
Large	29–32.5 cm (11¼–12½")	Pink	Wrist Length	P-WRL	89166-347
X-Large	29–32.5 cm (11¼–12½")	Pink	Wrist Length	P-WRXL	89166-351
Small	34.5–39 cm (13½–15¼")	Pink	Mid-Arm Length	P-MAS	89166-355
Medium	34.5–39 cm (13½–15¼")	Pink	Mid-Arm Length	P-MAM	89166-359
Large	34.5–39 cm (13½–15¼")	Pink	Mid-Arm Length	P-MAL	89166-363
X-Large	34.5–39 cm (13½–15¼")	Pink	Mid-Arm Length	P-MAXL	89166-367
Small	44–48.5 cm (17¼–19¼")	Pink	Elbow Length	P-EBS	89166-371
Medium	44–48.5 cm (17¼–19¼")	Pink	Elbow Length	P-EBM	89166-375
Large	44–48.5 cm (17¼–19¼")	Pink	Elbow Length	P-EBL	89166-379
X-Large	44–48.5 cm (17¼–19¼")	Pink	Elbow Length	P-EBXL	89166-383
Small	62.5–68.5 cm (24¾–27")	Pink	Shoulder Length	P-SHS	89166-387
Medium	62.5–68.5 cm (24¾–27")	Pink	Shoulder Length	P-SHM	89166-391
Large	62.5–68.5 cm (24¾–27")	Pink	Shoulder Length	P-SHL	89166-395
X-Large	62.5–68.5 cm (24¾–27")	Pink	Shoulder Length	P-SHXL	89166-399
Waterproof Gloves					
Small	29–32.5 cm (11¼–12½")	Pink	Wrist Length	P-WRSWP	89166-341
Medium	29–32.5 cm (11¼–12½")	Pink	Wrist Length	P-WRMWP	89166-345
Large	29–32.5 cm (11¼–12½")	Pink	Wrist Length	P-WRLWP	89166-349
X-Large	29–32.5 cm (11¼–12½")	Pink	Wrist Length	P-WRXLWP	89166-353
Small	34.5–39 cm (13½–15¼")	Pink	Mid-Arm Length	P-MASWP	89166-357
Medium	34.5–39 cm (13½–15¼")	Pink	Mid-Arm Length	P-MAMWP	89166-361
Large	34.5–39 cm (13½–15¼")	Pink	Mid-Arm Length	P-MALWP	89166-365
X-Large	34.5–39 cm (13½–15¼")	Pink	Mid-Arm Length	P-MAXLWP	89166-369
Small	44–48.5 cm (17¼–19¼")	Pink	Elbow Length	P-EBSWP	89166-373
Medium	44–48.5 cm (17¼–19¼")	Pink	Elbow Length	P-EBMWP	89166-377
Large	44–48.5 cm (17¼–19¼")	Pink	Elbow Length	P-EBLWP	89166-381
X-Large	44–48.5 cm (17¼–19¼")	Pink	Elbow Length	P-EBXLWP	89166-385
Small	62.5–68.5 cm (24¾–27")	Pink	Shoulder Length	P-SHSWP	89166-389
Medium	62.5–68.5 cm (24¾–27")	Pink	Shoulder Length	P-SHMWP	89166-393
Large	62.5–68.5 cm (24¾–27")	Pink	Shoulder Length	P-SHLWP	89166-397
Low-Temperature Gloves					
Small	29–32.5 cm (11¼–12½")	Blue	Wrist Length	WRS	32884-176
Medium	29–32.5 cm (11¼–12½")	Blue	Wrist Length	WRM	32884-187
Large	29–32.5 cm (11¼–12½")	Blue	Wrist Length	WRL	89426-964
X-Large	29–32.5 cm (11¼–12½")	Blue	Wrist Length	WRXL	32884-199
Small	34.5–39 cm (13½–15¼")	Blue	Mid-Arm Length	MAS	32885-714
Medium	34.5–39 cm (13½–15¼")	Blue	Mid-Arm Length	MAM	32885-736
Large	34.5–39 cm (13½–15¼")	Blue	Mid-Arm Length	MAL	32885-758
X-Large	34.5–39 cm (13½–15¼")	Blue	Mid-Arm Length	MAXL	89426-966
Small	44–48.5 cm (17¼–19¼")	Blue	Elbow Length	EBS	32884-072
Medium	44–48.5 cm (17¼–19¼")	Blue	Elbow Length	EBM	32884-074
Large	44–48.5 cm (17¼–19¼")	Blue	Elbow Length	EBL	32884-085
X-Large	44–48.5 cm (17¼–19¼")	Blue	Elbow Length	EBXL	32884-096
Small	62.5–68.5 cm (24¾–27")	Blue	Shoulder Length	SHS	32884-120
Medium	62.5–68.5 cm (24¾–27")	Blue	Shoulder Length	SHM	32884-122
Large	62.5–68.5 cm (24¾–27")	Blue	Shoulder Length	SHL	32884-131
X-Large	62.5–68.5 cm (24¾–27")	Blue	Shoulder Length	SHXL	32884-144
Waterproof Gloves					
Small	29–32.5 cm (11¼–12½")	Blue	Wrist Length	WRSWP	32884-021
Medium	29–32.5 cm (11¼–12½")	Blue	Wrist Length	WRMWP	32884-023

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Size	Length	Color	Style	Supplier No.	Cat. No.
Large	29–32.5 cm (111/4–121/2")	Blue	Wrist Length	WRLWP	32884-025
X-Large	29–32.5 cm (111/4–121/2")	Blue	Wrist Length	WRXLWP	32884-027
Small	34.5–39 cm (131/2–151/4")	Blue	Mid-Arm Length	MASWP	89426-960
Medium	34.5–39 cm (131/2–151/4")	Blue	Mid-Arm Length	MAMWP	89426-962
Large	34.5–39 cm (131/2–151/4")	Blue	Mid-Arm Length	MALWP	32884-031
X-Large	34.5–39 cm (131/2–151/4")	Blue	Mid-Arm Length	MAXLWP	32884-041
Small	44–48.5 cm (171/4–191/4")	Blue	Elbow Length	EBSWP	32884-043
Medium	44–48.5 cm (171/4–191/4")	Blue	Elbow Length	EBMWP	32884-046
Large	44–48.5 cm (171/4–191/4")	Blue	Elbow Length	EBLWP	32884-048
X-Large	44–48.5 cm (171/4–191/4")	Blue	Elbow Length	EBXLWP	32884-050
Small	62.5–68.5 cm (243/4–27")	Blue	Shoulder Length	SHSWP	32884-053
Medium	62.5–68.5 cm (243/4–27")	Blue	Shoulder Length	SHMWP	32884-055
Large	62.5–68.5 cm (243/4–27")	Blue	Shoulder Length	SHLWP	32884-057
X-Large	62.5–68.5 cm (243/4–27")	Blue	Shoulder Length	SHXLWP	32884-060

Knifehandler® Fingerless Gloves, Wells Lamont

For use in material handling; meat, poultry and seafood processing; and food service. CFR 21 – approved for food contact.

Breathable and form-fitting with excellent thermal properties.

Provides exceptional protection against cuts and slashes. Ambidextrous.

ANSI No.	7
Gauge	7



Supplier No.	Cat. No.
333406	80086-174

Knifehandler® Gloves, 6" Cuff, Wells Lamont

Provides exceptional protection against cuts and slashes. Ambidextrous.

Breathable and form-fitting. Excellent thermal properties.

CFR 21 – approved for food contact. For use in material handling; meat, poultry and seafood processing and food service.

ANSI No.	5
Gauge	7



Supplier No.	Cat. No.
333387	80090-882
333388	80090-884
333389	80090-886
333390	80090-888
333391	80090-890

Knifehandler® Gloves, Wells Lamont

Provides exceptional protection against cuts and slashes. Ambidextro.

Breathable and form-fitting. Excellent thermal properties.

CFR 21 – approved for food contact. For use in material handling; meat, poultry and seafood processing and food service.

ANSI No.	5
Gauge	7



Supplier No.	Cat. No.
134913	80090-748
134914	80090-750
134915	80090-752
134916	80090-754
134917	80090-756
134918	80090-758

The VWR Collection is the Easy Choice

Whether you're in a lab or production environment, you face the challenge of balancing the need to stretch your dollars with the need for quality and innovation. The VWR Collection helps you do both. With a wide range of equipment, and supplies, there's a VWR Collection product for your lab...and your budget. See ca.vwr.com for more information.





VWR® Basic Protection SPP Lab Coats

- Economical First Line Barrier
- Disposable Garments
- Maximum Breathability
- Low-Linting

Knee-length lab coats are manufactured from a spunbonded polypropylene (SPP) fabric that is strong, lightweight, and breathable. They may be used to protect against dirt, grime, and certain dry particulates in nonhazardous environments. These general-purpose garments are ideal for less critical areas or pre-gowning entry rooms.

Garments feature inset sleeves, snap front, and tapered collar. Available with elastic cuffs or knit cuffs. Serged seams.

Lab coats are rigorously tested and manufactured in an ISO Certified facility under stringent process controls to ensure that each garment meets exacting quality standards and performs to specification. Lot controlled and validated through independent lab testing.



Bacterial Filtration Efficiency	55%
H₂O Resistance (Avg.)	21.7 g
H₂O Vapor Transmission Rate (Avg.)	1257 g/m ² /24 hrs.
Particle Shedding (Helmke Drum)	Level II

Description	Size	Color	Cat. No.
Knit Cuffs, No Pockets	XX-Large	White	89136-824
Knit Cuffs, No Pockets	5X-Large	White	89136-828
Knit Cuffs, Three Pockets	Small	White	414004-346
Knit Cuffs, Three Pockets	Medium	White	414004-345
Knit Cuffs, Three Pockets	Large	White	414004-344
Knit Cuffs, Three Pockets	X-Large	White	414004-342
Knit Cuffs, Three Pockets	XX-Large	White	414004-343
Knit Cuffs, Three Pockets	3X-Large	White	414004-348
Elastic Cuffs, No Pockets	Small	White	414004-352
Elastic Cuffs, No Pockets	Medium	White	414004-353
Elastic Cuffs, No Pockets	Large	White	414004-351
Elastic Cuffs, No Pockets	X-Large	White	414004-350
Elastic Cuffs, No Pockets	XX-Large	White	414004-349
Elastic Cuffs, No Pockets	4X-Large	White	414004-354



VWR® Basic Protection SPP Shoe Covers

- Economical, Disposable First Line Barrier
- Maximum Breathability
- Low-Linting

These spunbonded polypropylene (SPP) shoe covers protect against dirt, grime, and certain dry particulates in nonhazardous environments. The fabric is strong, lightweight, and breathable. Appropriate for industrial, pharmaceutical, food processing, construction, and certain environmental cleanup applications. Shoe covers are rigorously tested and manufactured in an ISO Certified facility under stringent process controls to ensure that each garment meets exacting quality standards and performs to specification. Lot controlled and validated through independent lab testing.

Available with rubber-coated soles for secure footing on wet or dry surfaces. Elastic top and bottom.



Bacterial Filtration Efficiency	55%
Particle Shedding (Helmke Drum)	Level II

Description	Size	Length	Color	Cat. No.
Anti-Skid Shoe Covers	X-Large	47 cm (18 1/2")	Blue	414004-653
Heavy Weight Anti-Skid Shoe Covers	Universal	39.4 cm (15 1/2")	Blue	89233-794
Heavy Weight Anti-Skid Shoe Covers	X-Large	43.2 cm (17")	Blue	89233-796
Standard Shoe Covers	Universal	44.5 cm (17 1/2")	Blue	97041-234
Anti-Skid Shoe Covers	Universal	44.5 cm (17 1/2")	Blue	97041-236



VWR® Basic Protection SPP Coveralls

- Economical, Disposable First Line Barrier
- Maximum Breathability
- Low-Linting

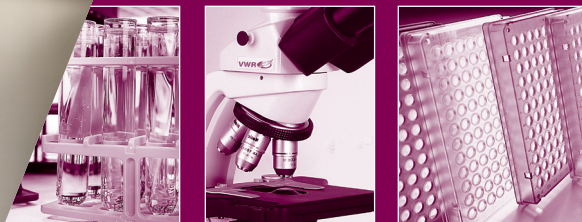
Coveralls are manufactured from a spunbonded polypropylene (SPP) fabric that is strong, lightweight, and breathable. They protect against dirt, grime, and certain dry particulates in nonhazardous environments. These general-purpose garments are ideal for less critical areas or pre-gowning entry rooms. Coveralls are rigorously tested and manufactured in an ISO Certified facility under stringent process controls to ensure that each garment meets exacting quality standards and performs to specification. Lot controlled and validated through independent lab testing.

White garments feature inset sleeves, front zipper, tapered collar, and elastic cuffs, ankles, and back. No pockets. Serged seams. Blue garments feature no elastic on wrist or ankle, a zip down front, and serged seams.



Bacterial Filtration Efficiency	55%
H ₂ O Resistance (Avg.)	21.7 g
H ₂ O Vapor Transmission Rate (Avg.)	1257 g/m ² /24 hrs.
Particle Shedding (Helmke Drum)	Level II

Size	Color	Cat. No.
Medium	White	414004-340
Large	White	414004-341
X-Large	White	414004-339
XX-Large	White	414004-338
3X-Large	White	414004-337
4X-Large	White	414004-335
5X-Large	White	414004-336



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Problems Require
Sophisticated
Solutions.**

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Product Choice delivered by a team of people focused on your success.
Together, We Enable Science.



VWR® Basic Protection SPP Gowns

- Economical
- First Line Barrier
- Non-Linting

Gowns are manufactured from a strong, lightweight, and breathable spunbonded polypropylene (SPP) fabric. They protect against dirt, grime, and certain dry particulates in nonhazardous environments. Gowns are rigorously tested and manufactured in an ISO Certified facility under stringent process controls to ensure that each garment meets exacting quality standards and performs to specification. Lot controlled and validated through independent lab testing.

Elastic cuffs and ties at the neck and waist ensure secure closure. No pockets. Serged seams.



Size	Color	Cat. No.
Large	Yellow	414004-467
X-Large	Yellow	414004-468
Large	Blue	89178-402
X-Large	Blue	89178-404



VWR® Advanced Protection Frocks

- Significant fluid and particulate barrier
- Durable, lightweight fabric
- Excellent breathability and water vapor transmission rate
- Soft tactile feel
- Appropriate for ISO 6 and higher

Frocks are manufactured from a specially formulated breathable microporous fabric that is exceptionally clean and durable. These low-linting garments provide a fluid barrier and dry-particulate protection, as well as resistance to common laboratory chemicals. Appropriate for industrial, pharmaceutical, food processing, construction, and certain environmental cleanup applications.

Garments feature snap collar and snap front, raglan sleeves, and elastic cuffs. Serged seams.

Frocks are rigorously tested and manufactured in an ISO Certified facility under stringent process controls to ensure that each garment meets exacting quality standards and performs to specification. Lot controlled and validated through independent lab testing.



Bacterial Filtration Efficiency	99.9%
H ₂ O Resistance	Pass
H ₂ O Vapor Transmission Rate (Avg.)	777 g/m ² /24 hrs.
Particle Shedding (Helmke Drum)	Level II
Synth. Blood Penetration Resistance	Pass

Size	Cat. No.
Small	414004-410
Medium	414004-407
Large	414004-406
X-Large	414004-404
XX-Large	414004-405
3X-Large	414004-408
4X-Large	414004-409

Custom Manufacturing

In addition to the products listed in our catalogue, Anachemia has the manufacturing capabilities to produce almost any chemical formulation or custom package size or type that your organization may need. Whether your goal is to reduce your staff's time spent preparing formulations used in your lab or to have product pre-packaged in single dose units, Anachemia's experienced chemical manufacturing personnel can assist you.

Contact us at **(800) 361-0209** to request a quote on custom chemical products.





VWR® Advanced Protection Anti-Skid Shoe Covers

- Excellent Particulate Barrier
- High Coefficient of Friction Provides Excellent Traction
- Non-Linting
- Serged Seams

Manufactured from a specially formulated PP/PE (polypropylene/polyethylene) microporous film, these shoe covers provide excellent fluid and barrier protection. Highly durable shoe covers ensure long-lasting abrasion- and skid-resistance. Available in standard or static dissipative formats.

Shoe covers are rigorously tested and manufactured in an ISO Certified facility under stringent process controls to ensure that each garment meets exacting quality standards and performs to specification. Lot controlled and validated through independent lab testing.



Bacterial Filtration Efficiency	>99.9%
H₂O Resistance	Pass
Kinetic Coefficient of Friction	1.69
Particle Shedding (Helmke Drum)	Level I
Static Coefficient of Friction	0.84

Size	Dimensions	Color	Cat. No.
Standard Shoe Covers			
Universal	39.4L x 15.9H cm (15½ x 6¼")	Blue	414004-649
Universal	39.4L x 15.9H cm (15½ x 6¼")	Blue	414004-498
X-Large	43.2L x 17.1H cm (17 x 6¾")	Blue	414004-650
X-Large	43.2L x 17.1H cm (17 x 6¾")	Blue	414004-499
XX-Large	47L x 17.8H cm (18½ x 7")	Blue	414004-651
XX-Large	47L x 17.8H cm (18½ x 7")	Blue	414004-500
Static Dissipative Shoe Covers			
Universal	39.4L x 17.8H cm (15½ x 7")	Blue	414004-644
X-Large	43.2L x 17.8H cm (17 x 7")	Blue	414004-645



VWR® Maximum Protection Gowns made with Fluid Impervious Fabric

- Full Protection from Fluids and Light Chemical Splash
- Manufactured from Fluid-Impervious Material
- Lowest Level of Particle Shedding
- Clean, Low-Linting Fabric

These gowns are the cleanest and most durable within the entire VWR Protection line of apparel. Gowns provide barrier protection against fluids, biologicals, particulates, and light chemical splash. Appropriate for industrial, pharmaceutical, food processing, and certain environmental cleanup applications.

Elastic cuffs and ties at the neck and waist ensure secure closure. Serged seams. Available in white or blue.

Gowns are rigorously tested and manufactured in an ISO Certified facility under stringent process controls to ensure that each garment meets exacting quality standards and performs to specification. Lot controlled and validated through independent lab testing.



Bacterial Filtration Efficiency	99.9%
H₂O Resistance	Pass
Particle Shedding (Helmke Drum)	Level I

Size	Color	Cat. No.
Medium	White	414004-681
Large	Blue	414004-469
Large	White	414004-470
X-Large	White	414004-471
4X-Large	White	414004-682

Men's Lab Coat, White Knight

These classic white lab coats for men are made with a soft but very durable 80/20 poly-cotton material that can stand up to industrial laundering. Designed to provide a clean professional appearance, they feature stitched-down collars and three pockets (one breast pocket with a pencil slot, and two lower hip pockets). For added convenience, there are side vents to access pants pockets. The front has five snaps, and cuffs are adjustable.

Overall length is 99cm (39"). Available in white only.

Coats feature a plain front, with no embroidery.



Size	Chest Size	Color	Supplier No.	Cat. No.
XX-Small	26–28"	White	12L1488200XXS	89408-598
X-Small	30–32"	White	12L1488200XS	89408-600
Small	34–36"	White	12L1488200S	89408-602
Medium	38–40"	White	12L1488200M	89408-604
Large	42–44"	White	12L1488200L	89408-606
X-Large	46–48"	White	12L1488200XL	89408-608
XX-Large	50–52"	White	12L14882002XL	89408-610
3X-Large	54–56"	White	12L14882003XL	89408-612
4X-Large	58–60"	White	12L14882004XL	89408-614
5X-Large	62–64"	White	12L14882005XL	89408-616

Barrier Coat, White Knight

Designed to prevent exposure to blood, bloodborne pathogens, and other potentially infectious materials, these barrier coats are compliant with OSHA standard 1910.1030 and can be an integral part of Exposure Control Plans. Coats offer excellent fluid resistant properties with a 100% polyester front and sleeves, but maintains breathability with a 65/35 poly/cotton back panel for ventilation.

Garments feature a Quick-Release snap front and knit cuffs for added protection. In addition, there are two hip pockets and one breast pocket, plus side seam openings for pants pocket access. Extremely durable and able to hold up to repeated industrial launderings.



Size	Chest Size	Color	Supplier No.	Cat. No.
X-Small	30–32"	White	12BC1-U-XS	89495-716
Small	34–36"	White	12BC1-U-S	89495-718
Medium	38–40"	White	12BC1-U-M	89495-720
Large	42–44"	White	12BC1-U-L	89495-722
X-Large	46–48"	White	12BC1-U-XL	89495-724
XX-Large	50–52"	White	12BC1-U-2XL	89495-726
3X-Large	54–56"	White	12BC1-U-3XL	89495-728
4X-Large	58–60"	White	12BC1-U-4XL	89495-730
5X-Large	62–64"	White	12BC1-U-5XL	89495-732
6X-Large	66–68"	White	12BC1-U-6XL	89495-734



VWR® Chemically Resistant Aprons

VWR® Chemically Resistant Aprons are designed to provide protection against chemical spray in hazardous waste remediation, environmental cleanup, petrochemical/oil refining, acid/caustic handling, biohazard cleanup, and pharmaceutical manufacturing applications.

Aprons are extra long (57") to provide additional coverage below the knee. They feature elastic wrists, open back, and bound seams for maximum protection.

Description	Length	Color	Cat. No.
Chemically Resistant Apron	145 cm (57")	Yellow	89232-928

VWR® Disposable Polyethylene Apron

Keep clothing clean and dry with medium weight polyethylene apron. One-piece bib design just slips over the head and ties in back.

Ordering Information: Supplied in 100/box dispenser, 5 boxes/case.

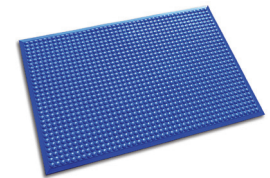


Size	Thickness	Color	Cat. No.
71.1W x 116.8L cm (28 x 46")	2 mil	White	10826-007

VWR® COLLECTION

VWR® Ergonomic Bubble Mats, Blue

- Stimulate the body to increase blood circulation and alertness
- Molded beveled edges eliminate tripping hazards
- Silicone- and latex-free
- Anti-static and meets ISO Class 5 (Class 1000) compliance
- Easy-to-clean, closed-cell/non-porous top surface
- Highly resistant to chemicals and UV light



The VWR® Bubble Mat is a true ergonomic mat. The VWR Bubble mat has the comfort of a polyurethane mat and the added benefit of easy clean-ability due to its closed-cell/non-porous top surface. Also has extremely good chemical and UV resistance (except for organic solvents). The VWR® Bubble mat can be customized to any size and any shape, always in one piece. It has anti-static properties, and meets Cleanroom ISO Class 5 (Class 100) compliance.

Safety features include molded beveled edges that will never curl up, eliminating tripping hazards. With the VWR® Bubble mat, you will never have overlapping or worn-out connecting mats, which also eliminates tripping hazards.

Constructed of the highest quality using only virgin raw material, this bubble mat has lifetime ergonomic benefits. The VWR Bubble mat is silicone & latex-free. Using its unique ergonomic designs, this mat prevents common problems encountered in standing environments, while stimulating the body to increase blood circulation and alertness that will reduce sick leave, workers' compensation and quality issues. The VWR® Bubble mat is a solid mat throughout, which means no hollow bubbles that collapse.

Meets Cleanroom ISO Class 5 (Class 100) compliance.

W x L	Cat. No.
0.6 x 0.9 m (2 x 3')	89184-910
0.6 x 1.2 m (2 x 4')	89184-912
0.6 x 1.5 m (2 x 5')	89184-914
0.6 x 1.8 m (2 x 6')	89184-916
0.6 x 2.1 m (2 x 7')	89184-918
0.6 x 2.4 m (2 x 8')	89184-920
0.6 x 2.7 m (2 x 9')	89184-922
0.6 x 3.0 m (2 x 10')	89184-924
0.9 x 0.9 m (3 x 3')	89184-946
0.9 x 1.2 m (3 x 4')	89184-948
0.9 x 1.5 m (3 x 5')	89184-950
0.9 x 1.8 m (3 x 6')	89184-952

W x L	Cat. No.
0.9 x 2.1 m (3 x 7')	89184-954
0.9 x 2.4 m (3 x 8')	89184-956
0.9 x 2.7 m (3 x 9')	89184-958
0.9 x 3.0 m (3 x 10')	89184-960
1.2 x 1.2 m (4 x 4')	89184-982
1.2 x 1.5 m (4 x 5')	89184-984
1.2 x 1.8 m (4 x 6')	89184-986
1.2 x 2.1 m (4 x 7')	89184-988
1.2 x 2.4 m (4 x 8')	89184-990
1.2 x 2.7 m (4 x 9')	89184-992
1.2 x 3.0 m (4 x 10')	89184-994

Consolidate Your Orders with VWR

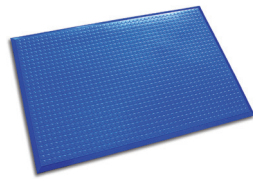
Consolidating orders helps reduce deliveries which can help reduce emissions/fossil fuels, lower packaging waste, save paper and energy, and may also help manage receiving costs and freight charges. Call **1.800.932.5000** or visit ca.vwr.com/sustainability for more information.



VWR COLLECTION

VWR® Ergonomic Smooth Mats, Blue

- Stimulate the body to increase blood circulation and alertness
- Molded beveled edges eliminate tripping hazards
- Silicone- and latex-free
- Anti-static and meets ISO Class 5 (Class 1000) compliance
- Easy-to-clean, closed-cell/non-porous top surface
- Highly resistant to chemicals and UV light



The VWR® Smooth Mat is a true anti-fatigue mat.

This smooth mat has the comfort of a polyurethane mat and the added benefit of easy clean-ability due to its closed-cell/non-porous top surface. The VWR® Smooth mat has extremely good chemical and UV resistance (except for organic solvents), and is ideal where carts or trolleys must be used. It also can be customized to any size and any shape, always in one piece. The VWR® Smooth mat has anti-static properties, and meets Cleanroom ISO Class 5 (Class 100) compliance.

Safety features include molded beveled edges that will never curl up, eliminating tripping hazards. With the VWR® Smooth mat, you will never have overlapping or worn-out connecting mats, also eliminating tripping hazards.

Constructed of the highest quality using only virgin raw material, this mat has lifetime ergonomic benefits. The VWR® Smooth mat is silicone & latex-free. Using its unique ergonomic designs, this smooth mat prevents common problems encountered in standing environments while stimulating the body to increase blood circulation and alertness that will reduce sick leave, workers' compensation and quality issues. The VWR® Smooth mat is a solid mat throughout.

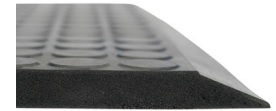
Meets Cleanroom ISO Class 5 (Class 100) compliance.

W x L	Cat. No.
0.6 x 0.9 m (2 x 3')	89185-122
0.6 x 1.2 m (2 x 4')	89185-124
0.6 x 1.5 m (2 x 5')	89185-126
0.6 x 1.8 m (2 x 6')	89185-128
0.6 x 2.1 m (2 x 7')	89185-130
0.6 x 2.4 m (2 x 8')	89185-132
0.6 x 2.7 m (2 x 9')	89185-134
0.6 x 3.0 m (2 x 10')	89185-136
0.9 x 0.9 m (3 x 3')	89185-158
0.9 x 1.2 m (3 x 4')	89185-160
0.9 x 1.5 m (3 x 5')	89185-162
0.9 x 1.8 m (3 x 6')	89185-164
0.9 x 2.1 m (3 x 7')	89185-166
0.9 x 2.4 m (3 x 8')	89185-168
0.9 x 2.7 m (3 x 9')	89185-170
0.9 x 3.0 m (3 x 10')	89185-172
1.2 x 1.2 m (4 x 4')	89185-194
1.2 x 1.5 m (4 x 5')	89185-196
1.2 x 1.8 m (4 x 6')	89185-198
1.2 x 2.1 m (4 x 7')	89185-200
1.2 x 2.4 m (4 x 8')	89185-202
1.2 x 2.7 m (4 x 9')	89185-204
1.2 x 3.0 m (4 x 10')	89185-206

VWR COLLECTION

VWR® Ergonomic Economy Smooth Mats, Black

The VWR® Economy Smooth Mat is a low-density polyurethane material with an anti-fatigue profile. This flat mat is ideal for dry, non-critical environments combining both sitting and standing work areas. No smooth matting available delivers as much relief and comfort at this price. The VWR® Economy Smooth Mat can be customized to any size and any shape, always in one piece.



Safety features include molded beveled edges that will never curl up, eliminating tripping hazards.

With the VWR® Economy Smooth Mat, you will never have overlapping or worn-out connecting mats, which also eliminates tripping hazards.

The VWR® Economy Smooth Mat has lifetime ergonomic benefits. Using its unique ergonomic designs, this flat mat prevents common problems encountered in standing environments while stimulating the body to increase blood circulation and alertness that will reduce sick leave, workers' compensation and quality issues. The VWR® Economy Smooth Mat is a solid mat throughout. This mat is silicone & latex-free.

W x L	Cat. No.
0.6 x 0.9 m (2 x 3')	89185-440
0.6 x 1.2 m (2 x 4')	89185-442
0.6 x 1.5 m (2 x 5')	89185-444
0.6 x 1.8 m (2 x 6')	89185-446
0.6 x 2.1 m (2 x 7')	89185-448
0.6 x 2.4 m (2 x 8')	89185-450
0.6 x 2.7 m (2 x 9')	89185-452
0.6 x 3.0 m (2 x 10')	89185-454
0.9 x 0.9 m (3 x 3')	89185-476
0.9 x 1.2 m (3 x 4')	89185-478
0.9 x 1.5 m (3 x 5')	89185-480
0.9 x 1.8 m (3 x 6')	89185-482
0.9 x 2.1 m (3 x 7')	89185-484
0.9 x 2.4 m (3 x 8')	89185-486
0.9 x 2.7 m (3 x 9')	89185-488
0.9 x 3.0 m (3 x 10')	89185-490
0.9 x 6.0 m (3 x 20')	89185-510
1.2 x 1.5 m (4 x 5')	89185-514
1.2 x 1.8 m (4 x 6')	89185-516
1.2 x 2.1 m (4 x 7')	89185-518
1.2 x 2.4 m (4 x 8')	89185-520
1.2 x 2.7 m (4 x 9')	89185-522
1.2 x 3.0 m (4 x 10')	89185-524

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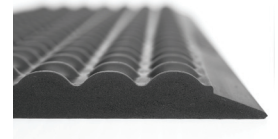


VWR® Ergonomic Economy Bubble Mats, Black

The VWR® Economy Bubble Mat is a low-density polyurethane material with an ergonomic profile. This bubble mat is designed for dry, non-critical environments while reducing trip hazards, body aches, quality issues and sick leaves. No bubble matting available delivers as much relief and comfort at this price. The VWR® Economy Bubble Mat can be customized to any size and any shape, always in one piece.

Safety features include molded beveled edges that will never curl up, eliminating tripping hazards. With the VWR Economy Bubble Mat, you will never have overlapping or worn-out connecting mats, which also eliminates tripping hazards.

The VWR® Economy Bubble Mat has lifetime ergonomic benefits. Using its unique ergonomic designs, this bubble mat prevents common problems encountered in standing environments while stimulating the body to increase blood circulation and alertness that will reduce sick leave, workers' compensation and quality issues. The VWR® Economy Bubble Mat is a solid mat throughout, which means no hollow bubbles that collapse. This mat is silicone & latex-free.



W x L	Cat. No.
0.6 x 0.9 m (2 x 3')	89185-334
0.6 x 1.2 m (2 x 4')	89185-336
0.6 x 1.5 m (2 x 5')	89185-338
0.6 x 1.8 m (2 x 6')	89185-340
0.6 x 2.1 m (2 x 7')	89185-342
0.6 x 2.4 m (2 x 8')	89185-344
0.6 x 2.7 m (2 x 9')	89185-346
0.6 x 3.0 m (2 x 10')	89185-348
0.9 x 0.9 m (3 x 3')	89185-370
0.9 x 1.2 m (3 x 4')	89185-372
0.9 x 1.5 m (3 x 5')	89185-374
0.9 x 1.8 m (3 x 6')	89185-376

W x L	Cat. No.
0.9 x 2.1 m (3 x 7')	89185-378
0.9 x 2.4 m (3 x 8')	89185-380
0.9 x 2.7 m (3 x 9')	89185-382
0.9 x 3.0 m (3 x 10')	89185-384
1.2 x 1.2 m (4 x 4')	89185-406
1.2 x 1.5 m (4 x 5')	89185-408
1.2 x 1.8 m (4 x 6')	89185-410
1.2 x 2.1 m (4 x 7')	89185-412
1.2 x 2.4 m (4 x 8')	89185-414
1.2 x 2.7 m (4 x 9')	89185-416
1.2 x 3.0 m (4 x 10')	89185-418



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PIG® Spill Kit in Large Wall-Mount Cabinet, New Pig

Safety-yellow, heavy-gauge, welded steel cabinet is printed "Spill Kit" for quick identification. PIG BLUE Socks stop spreading spills; PIG Mat and Pillows absorb quickly; wipers clean surfaces and hands.

Prepacked cabinet provides easy access to contents. See-through front panel lets you easily check inventory levels. Includes write-on label for emergency contact info. Two adjustable shelves.



Capacity	Supplier No.	Cat. No.
Absorbs up to 64.3 L (17 gal.)	KIT228	56620-448

Accessories		
Description	Supplier No.	Cat. No.
Refill for PIG® Spill Kit in Large Wall-Mount Cabinet, Absorbs up to 64.3 L (17 gal.)	RFL228	56620-448

PIG® HazMat Spill Kit in High-Visibility Cart, New Pig

- Absorbs up to 53L (14gal.) of most acids and bases
- Allows sorbents to be rolled right up to spill site
- Compartmentalized for quick access to materials
- Features adjustable shelves and 20.3cm (8") wheels for easy mobility
- Completely enclosed and lockable for added security (padlock not included)
- Supports compliance with 40 CFR 112.7(c)(1)

Shelves and compartments make cart easy to inventory and access. The 8" plastic wheels roll easily over uneven surfaces. Narrow width fits easily through doors and aisles. PIG HazMat Socks stop spreading spills; PIG Rip-&-Fit HazMat Roll and Pillows absorb; PIG Repair Putty plugs and patches cracks and leaks. PIG HazMat Absorbents are specially treated for unsurpassed performance with concentrated corrosives, such as 98% sulfuric acid and 30% sodium hydroxide.

Prepacked, compartmentalized cart provides easy access to contents. Quick-reference spill response instructions are printed inside container. Lockable for added security. Ideal for maintenance crews, as well as labs or other areas prone to small spills. Not UN rated.

Optional Refill for PIG® HazMat Spill Kit in High-Visibility Cart is packed to refill your PIG HazMat Spill Kit. PIG HazMat Socks stop spreading spills; PIG Rip-&-Fit HazMat Roll and Pillows absorb quickly; PIG Repair Putty plugs or patches leaks or cracks. PIG HazMat Absorbents are specially treated for unsurpassed performance with concentrated corrosives, such as 98% sulfuric acid and 30% sodium hydroxide. Temporary disposal bags help make cleanup easier.



Capacity	Supplier No.	Cat. No.
Absorbs up to 53 L (14 gal.)	KIT344	89073-812

Accessories		
Description	Supplier No.	Cat. No.
Refill for PIG® HazMat Spill Kit in High-Visibility Cart, Absorbs up to 53 L (14 gal.)	RFL344	89073-970

PIG® HazMat Spill Kit in Stowaway Bag, New Pig

Durable denim bag hides dirt and can fit almost anywhere. PIG® HazMat socks stop spreading spills; PIG® HazMat pads absorb; PIG® repair putty plugs or patches cracks or leaks. PIG® HazMat absorbents are specially treated for unsurpassed performance with concentrated corrosives, such as 98% sulfuric acid and 30% sodium hydroxide. Instant bucket helps you handle spills or ruptures on the road.

Temporary disposal bags help make cleanup easier. Spill kit in compact bag with drawstring closure is ideal for storage behind a vehicle seat.



Capacity	Supplier No.	Cat. No.
Up to 22.7 L (6 gal.)	KIT306	56620-426

Spill Clean-Up Centers and Kits, J.T. Baker®

- To neutralize, clean up, and safely dispose of acid, caustic, and flammable solvent spills
- NEUTRASORB provides rapid, controlled neutralization of concentrated acids, and visible color change as indication of complete neutralization
- NEUTRACIT-2 provides a controlled reaction which eliminates splattering
- SOLUSORB reacts immediately with the solvent, reducing solvent vapors and raising the flash point of the mixture
- Assortment A consists of three spill clean-up kits plus a wall-mountable storage cabinet and video
- Supplied with the appropriate neutralizer, safety glasses, scoops, gloves, disposal bags and ties, and labels replacement kits, available separately

Be prepared for hazardous laboratory spills. With NEUTRASORB®, NEUTRACIT®-2, and SOLUSORB®, lab personnel can quickly neutralize, clean up, and safely dispose of acid, caustic, and flammable solvent spills.

For acid spill clean-up, NEUTRASORB® provides rapid, controlled neutralization of concentrated acids, and visible color change as indication of complete neutralization. After complete neutralization, waste materials contain neutralized alkali metal and alkaline earth salts of the treated acid.

For caustic spill clean-up, NEUTRACIT®-2 provides a controlled reaction which eliminates splattering. The heat of the reaction is released safely as carbon dioxide. Visible color change indicates that neutralization is complete. After complete neutralization, waste materials contain neutralized citrate salts of the treated caustic.

For solvent spill clean-up, SOLUSORB® reacts immediately with the solvent, reducing solvent vapors and raising the flash point of the mixture. SOLUSORB® provides for the safe, effective handling of a solvent spill through reduction of flammable or toxic vapors, fast handling, complete cleanup, and convenient disposal.

Assortment CB is a spill control center containing two units each of NEUTRASORB® (3.2 kg) and SOLUSORB® (1.1 kg) and one unit of NEUTRACIT®-2 (1.2 kg). The included safety kit contains: four scoops, sponge, one pair gloves, safety glasses, five disposal bags and ties, and 15 waste labels (five flammable solvent spill, five acid spill, and five caustic spill). All components plus a "Spills In The Lab" video are housed in a convenient, wall-mountable storage cabinet for easy access. To restock units of NEUTRASORB® and NEUTRACIT®-2, see **JT4456-5** and **JT4470-5** series.

Assortment A consists of three spill clean-up kits plus a wall-mountable storage cabinet and video. Each kit (one each of NEUTRASORB®, NEUTRACIT®-2, and SOLUSORB®) is supplied with the appropriate neutralizer, safety glasses, scoops, gloves, disposal bags and ties, and labels. Restock your spill control center (or create your own) with replacement kits, available separately.

Caution: NEUTRASORB® should not be used for spills of hydrofluoric acid, fuming nitric acid, fuming sulfuric acid, or peroxy (per-) organic or other highly reactive acids.



Description	Supplier No.	Cat. No.
SAF-T-SPILL™ Acid Spill Kit and Components (NEUTRASORB®)	4442-02	CAJT4442-2

SpillSolv® Laboratory Spill Kits, EMD Millipore

For safe, easy, effective spill treatment in the laboratory. SpillSolv® kits are available for acid, caustic, solvent, formaldehyde, or mercury spills. Also available is a multipurpose spill kit that contains spill response materials for a combination of spills.

Agents are formulated to rapidly clean up chemical spills and vapors. Each bottle has a convenient dispensing cap for shaking or pouring.

Caustics and acids are converted into nonhazardous compounds that meet EPA specifications for nonhazardous waste, simplifying cleanup and disposal. Solvent spills can be easily treated and transported with the absorbent in the solvent spill kit. This absorbent will also act as a vapor suppressant. The formaldehyde spill kit contains a two-part neutralization and immobilization system that effectively neutralizes formaldehyde solution spills. The multipurpose kit can treat up to a 4L (1.1gal.) solvent spill or a 2.5L (0.7gal.) acid and caustic spill.

The mercury spill kit controls mercury spills in minutes using a simple, two-step procedure. Also included is a mercury vapor suppressant absorbent which is ideally suited to penetrate inaccessible areas such as cracks and crevices.

Ordering Information: Packaged in a lightweight, wall-mountable kit that can be brought to the spill. The acid, caustic, and solvent kits each contain six bottles of SpillSolv® agent formulated for the type of spill. The multipurpose kit contains two containers of each of the three spill agents. The formaldehyde kit contains one 200g (7oz.) bottle of formaldehyde absorbent and immobilizer powder, six 950mL (32.1oz.) bottles of formaldehyde neutralization concentrate (base), and six 50mL (1.7oz.) bottles of formaldehyde neutralization concentrate activator. The mercury kit contains one bottle each of immobilizer and vapor suppressant.

Each kit includes the following accessory items: goggles, gloves, disposal bags, scoops, sponge, and guide. The mercury spill kit also includes syringes and Tyvek® booties. The formaldehyde spill kit also includes spray heads. Purchase **EM-SX1300S-1** to replace the standard accessories set, and **EM-SX1340S-1** to replace the formaldehyde accessories set.



Description	Supplier No.	Cat. No.
SpillSolv® Acid Spill Kit for Acid Spills	SX1310-1	CASX1310-1

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VWR® General-Purpose, Oil-Only, and Hazmat Pads and Rolls

- Soak up leaks and spills fast, keeping floors at your workplace clean, dry, and safe
- High-capacity absorbents stay on the job longer and are perfect for stocking spill kits
- Can be incinerated after use to reduce waste
- General-purpose absorbents soak up water-based liquids, petroleum products, and solvents
- Oil-only absorbents soak up oils but repel water
- Hazmat absorbents soak up aggressive fluids such as acids, caustics, and bases

Absorbent pads and rolls are ideal for spill cleanup; fast-wicking dimpled design absorbs liquids quickly to leave area clean and dry for improved safety. Efficient high-absorbency materials reduce waste of absorbents.

General-purpose pads and rolls absorb water-based liquids, petroleum products, and solvents for everyday maintenance and cleanup. Oil-only pads and rolls absorb oils but repel water. Hazmat pads and rolls are designed for aggressive fluids such as acids, caustics, and bases.



Description	W x L	Color	Cat. No.
General-Purpose Pads	38.1 x 48.3 cm (15 x 19")	Gray	82028-028



VWR® Hazmat Spill Response Kit

- Includes 20 pads, three socks, one pair nitrile gloves, one pair safety goggles, and one water-resistant yellow bag with tie
- Supports compliance with 40 CFR 263.30(a) safety standard

Absorbency	Cat. No.
Up to 34.1 L (9 gal.) of Acids, Caustics, and Bases	89168-998



PIG® Universal Pads and Rolls, New Pig

- Eight-layer pads and rolls combine grip and strength to reduce slip hazards and keep floors clean
- Polypropylene (made with 50% recycled content) soaks up and retains liquids
- Dimpled for quicker absorption of water-based liquids, petroleum products, solvents, and a broad range of chemicals
- Choose light, medium, or heavyweight depending on the amount of liquid you need to absorb
- Can be incinerated after use to reduce waste Color: dark gray

Polypropylene absorbent pads and rolls are designed to safeguard walking areas against liquids that could cause accidents and for daily protection in areas prone to overspray or sporadic drips, such as under conveyors. Dark gray material is dimpled for quicker absorption of water-based liquids, petroleum products, solvents, and a broad range of chemicals. Lightweight pads and rolls are flexible for wiping up small leaks and lining tool boxes and benches. Mediumweight pads and rolls are versatile for general use.

Heavyweight pads and rolls are constructed for large-volume cleanups. Rolls are perforated every 25.4cm (10") for tearing off the length of pad needed. Can be wrung out and incinerated after use to reduce waste.

Note: Given capacity is absorbency capacity of entire package.



Description	Capacity	W x L	Weight	Supplier No.	Cat. No.
Lightweight Pads	83.3 L (22 gal.)	38.1 x 50.8 cm (15 x 20")	7.7 kg (17 lbs.)	MAT204	56620-034

PIG® Original SpillBlocker® Dike, New Pig

- Portable, flexible barrier contains or diverts the flow of water, petroleum products, and most chemicals without absorbing them
- Helps you keep pollutants out of drains and avoid fines
- Reusable barrier consists of durable top layer and tacky bottom layer
- 6cm (2 1/4") polyurethane dike is supplied in 3m (10') lengths

New Pig formulation features a tear-resistant top layer and a flexible, tacky bottom layer that seals tight to smooth surfaces and blocks liquids.

The 2.25" height is great for containing smaller spills. Fast protection for when a spill is heading right for your drain; just place dike in front of spill to contain liquid. Confines and diverts fluids without absorbing them, making cleanup or reclamation simpler. Polyurethane material resists water, oils and many chemicals. Reusable dike cleans easily with soap and water.

Add the handy optional connector piece to a pair of PIG Original SpillBlocker Dikes for a liquid-proof seal. Create any length to suit your application or environment. Use with your straight sections or optional 90-degree corner piece (PLR206). Add the handy optional corner piece to a pair of Original SpillBlocker Dikes for a 90-degree angle. Create any shape or configuration to suit your application or environment. Requires Original SpillBlocker Dike connectors (PLR205) to join to your other sections for a liquid-proof seal.



Dimensions	Supplier No.	Cat. No.
10.2 cm x 3 m x 5.7 cm (4" x 10' x 2.25")	PLR204-YW	56620-178
Accessories		
Description	Supplier No.	Cat. No.
Connector for PIG® Original SpillBlocker® Dike, 14 x 10.2 x 5.7 cm (5.5 x 4 x 2.25")	PLR205	56620-180
Corner for PIG® Original SpillBlocker® Dike, 10.2 x 10.2 x 5.7 cm (4 x 4 x 2.25")	PLR206	56620-648

NEUTRACIT®-2 Material for Caustic Spills, J.T. Baker®

Be prepared for caustic spills with NEUTRACIT®-2 material.

NEUTRACIT®-2 material provides a controlled reaction which eliminates splattering. The heat of the reaction is released safely as carbon dioxide. A built-in indicator changes color when neutralization is complete. After complete neutralization, waste materials are neutralized citrate salts of the treated caustic.

Ordering Information: Available in three sizes or as part of a complete caustic spill clean-up kit (see JT4433-2 series for kits).

Size	Supplier No.	Cat. No.
1.2 kg (2.6 lbs.)	4470-05	CAJT4470-5



PIG® Oil-Only Absorbent Mat Roll, New Pig

Eight layers of 100% polypropylene are thermally bonded to give PIG Mat excellent strength; won't rip, tear or fray even when saturated. Exclusive dimple pattern speeds wicking of liquid throughout mat for faster, easier cleanup. Highly absorbent, fine-fiber construction won't leave behind liquids or fiber residue. Absorbs and retains oils and oil-based liquids - including lubricants and fuels - without taking in a drop of water. Bright white color makes absorbed oil easier to see; draws attention to machine leaks and clearly shows saturation level during spill response. Floats to clean up spills on water.

Can be wrung out and incinerated after use to reduce waste or for fuels blending. Flame-resistant material won't burn immediately like cellulose mats; melts when exposed to high heat while on the job. Rolls are ideal for covering large areas and soaking up leaks and overspray. Easy-tear perforations let you take only what you need, so you use less mat and save money.

Heavyweight construction is highly durable and absorbent for demanding tasks and large-volume cleanups. Mediumweight construction is versatile for general, everyday tasks and cleanups. Light-weight construction is economical for small tasks and cleanups.



Description	Dimensions	Supplier No.	Cat. No.
Lightweight	76.2 cm x 46 m (30" x 150')	MAT462	89073-858

Safety & Apparel

Spill Control

PIG® Spill Containment Tray, New Pig

- Catch spills when containers leak, spill, or crack
- Ideal for storing small containers on lab countertop
- Chemical-resistant polyethylene trays have built-in containment reservoir
- Translucent sidewalls make leaks visible
- Pour spout allows easy draining

Chemical-resistant polyethylene tray features built-in sump containment to trap leaks and drips while you work. Translucent sidewalls let you easily inspect fluid level in sump. Compact size fits on tabletop or counter; Excellent for use in labs. Pour spout for easy draining.



Dimensions	Sump Capacity	Supplier No.	Cat. No.
30.5 x 42.2 x 9.9 cm (12 x 16.63 x 3.88")	5.7 L (1.5 gal.)	PAK371	46000-750



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3. Delivery – Delivery of all orders will be FCA (INCOTERMS 2000). Shipping and handling fees, special packaging materials (e.g., blue ice), carrier surcharges (including fuel surcharges) and hazardous material fees imposed by government regulation will be added separately to the invoice.

4. Damaged Shipments – Please inspect your VWR shipment upon receipt. If any external damage is noticed, accept the shipment only after the driver has noted the damage on both his and your copies of the delivery receipt and you have requested an inspection by the carrier. Keep all containers and packing material for inspection. If, upon opening a shipment, you find a shortage or damage, you must request inspection by the carrier within 15 days of delivery or you will relinquish your right to make a claim. VWR International reserves the right to repair a damaged product, where applicable, before replacement or credit is determined.

5. Payment Terms - Individual invoices, net thirty (30) days from date of invoice; summary invoices, if any, will be due as agreed. Payments are to be made in freely available United States dollars, including applicable taxes, and other charges such as government imposed surcharges which VWR may be required to pay or collect with respect to the sale or transportation of the Products, or the provision of Services. Payment is considered late when it is received into VWR's lockbox after the due date, which may result in an additional service charges as described further in this section. Any payments received no later than 2.00 PM Eastern Standard Time at VWR's lockbox will be credited to Customer's account as of the date received, while payments received after 2.00 PM Eastern Standard Time will be credited to Customer's account the following business day. Delinquent accounts will be subject to a service charge on past due amounts of one and one-half percent (1 1/2%) per month (or, if less, the maximum amount permitted by law). VWR recommends payments be made by ACH method to ensure timely receipt by VWR. Payment by credit card may only be used as a prepayment method when placing orders or for past due collections. When a credit card is used to pay monies to satisfy a past due account, Customer will be charged an additional processing fee of 2.5% on the amount charged to the credit card at time of processing. Customer will provide VWR, concurrent with each payment, with remittance information in sufficient detail (to the invoice level or line level as the case may be) to allow VWR to properly apply payments or credit memos to outstand-

ing receivable(s) on VWR's accounts receivable sub-ledger for Customer. Customer shall also include its account number with any remittance. Failure to supply VWR with such remittance detail will result in additional processing delays and may affect the credit status of pending or future Customer purchase orders. When Customer wishes to apply one or more credit memos towards a payment amount owed VWR, Customer agrees to provide VWR, on a timely basis, the specific credit memo number(s) and amount(s) to be applied, in addition to the remittance information requirements above. If Customer does not provide such information on a timely basis, VWR shall apply any such credit memos to outstanding receivables, beginning with the most-aged receivables first. Customer agrees to complete, sign and submit a standard VWR credit application to VWR's Risk Management Department located at 1230 Kennestone Circle, Marietta, Georgia 30066. Customer will provide, or make available to VWR upon request, its latest audited financial statements (or unaudited financial statements, if audits are not performed). VWR agrees to keep such information confidential and to use it exclusively to evaluate and apply a credit score or rating to Customer for extension of credit purposes or pending transactions. Furthermore, Customer agrees to inform VWR of any material adverse change in its business that would reasonably be expected (by an independent 3rd party) to negatively impact its outstanding or future payment obligations and the terms or conditions contained herein. A change shall include, but not be limited to, any change in Customer's credit rating as determined by any single major rating agency, including Standard & Poor's, Moody's, Fitch or Dominion Bond Rating Service.

6. Sales Tax – Sales taxes where applicable (local, state or federal) will be added to the invoice price.

7. Product Return Policy

(a) All returns must be authorized by VWR in order to insure proper credit. NOTE: All returns are subject to 15% restocking charge. Where credits will be issued to the Customer for authorized returns under \$100, the Customer is not required to return the Product to VWR except for Product(s) delivered but not ordered (picking errors). To ensure proper credit, each Product return must include the following information:

- Customer Name and Address
- Purchase Order Number
- VWR Shipping Order Number
- Date of Invoice
- Catalog Number of Returned Item(s)
- VWR Return Authorization Number
- Reason for Return

(b) Products not authorized for return include:

- Products not in completely resaleable condition (including Products with damaged, missing or defaced labeling or packaging)
- Chemicals, reagents, diagnostics, sterile or any controlled products (unless products do not meet specification)
- Laboratory apparatus or instruments that have been used or are without the original packaging, labeling
- and operating manuals.
- Refrigerated products or other perishables
- Products purchased on a Special Order Basis

- Products not purchased from VWR
- Products with an expired shelf life or an expiration date too short for resale
- Discontinued products

(c) Each return shipment of hazardous materials must be packed and labeled in accordance with DOT regulations applying to transportation of hazardous materials. Shipping documents must also meet DOT regulations. When necessary, Customer shall include with each return shipment of equipment, a certification from an authorized representative of the company that the equipment was properly decontaminated in accordance with current regulations and other recommended guidelines. The product should be shipped to the indicated service center and the transportation charges prepaid. To ensure prompt handling, the return authorization number should be placed on the outside of the package.

8. Product and Service Warranties and Limitation of Liability

(a) VWR warrants to the original Customer only that:

i. VWR VistaVision™ microscopes are guaranteed to be free of defects in material or workmanship for three (3) years from delivery, with the exception of the electrical system, which is guaranteed to be free of defects in material or workmanship for one (1) year from delivery; VWR[®] symphony[®] meters are guaranteed to be free of defects in material or workmanship for three (3) years from delivery; and all VWR Private Label equipment is guaranteed to be free of defects in material or workmanship for two (2) years from delivery;

ii. all VWR Private Label laboratory casework will, under normal use, be free from defects in material or workmanship for one (1) year and corrosion for three (3) years from installation date and, if VWR installs the laboratory casework, the installation labor will be guaranteed for one (1) year;

iii. All software programs are warranted in accordance with the software vendor's license agreement; iv. all other Products, branded and private label, will meet the manufacturer's specifications for a term equal to the warranty period stated in the Product manufacturer's literature or sixty (60) days, whichever is longer; and v. Services provided, if any, will be of the kind and quality designated and will be performed by qualified personnel.

vi. VWR makes no claims or warranties concerning sustainable/green products. Any claims concerning sustainable/green products, including but not limited to, any of the following: green, recycled, recyclable, reusable, refillable, renewable, biodegradable, degradable, photodegradable, compostable, carbon footprint, renewable sources, source reduced, ozone safe, ozone friendly, environmentally friendly, no CFC's, CRC-Free, are the sole claims of the manufacturer and not those of VWR.

(b) VWR HEREBY DISCLAIMS ALL OTHER WARRANTIES OR GUARANTEES WITH RESPECT TO THE SUBJECT MATTER OF THIS AGREEMENT, WHETHER STATUTORY, WRITTEN, ORAL, EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY, SUITABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

(c) The liability of VWR under this limited warranty does not extend to any Products which are abused, altered or misused by the Customer or any other persons or entities or which become defective or non-conforming through the actions or inaction of the Customer or any other persons or entities. A defective or non-conforming Product is defined only as a Product which is outside of the manufacturer's defined Product specifications, and shall not include Products that fail to meet any fitness of use by Customer or any unique Customer operating conditions or applications.

(d) If any Product or Service warranted hereunder proves defective or non-conforming, VWR's sole liability and Customer's sole remedy hereunder shall be for VWR, to repair or, at VWR's option, (i) replace (or reperform the Service), at no cost to Customer, any such defective or non-conforming Product with a non-defective or conforming Product (as applicable) or (ii) credit Customer's account for all amounts paid with respect to the defective or non-conforming Product or Service upon VWR's receipt of the defective or non-conforming Product. In the event of replacement, the replacement Product will be warranted for the remainder of the original warranty period or ninety (90) days, whichever is longer.

(e) If a Product should require service, contact the VWR office nearest your location for instruction (for a complete list of offices, see your VWR catalog). When the return of the Product is necessary, a return authorization number will be assigned and the Product shipped, transportation charges prepaid, to the indicated service center. To insure prompt handling, the return authorization number should be placed on the outside of the package and a detailed explanation of the defect enclosed with the Product.

(f) IN NO EVENT SHALL VWR HAVE ANY OBLIGATION OR LIABILITY FOR ANY EXEMPLARY, PUNITIVE, INCIDENTAL, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES (INCLUDING BUT NOT LIMITED TO LOSS OF PROFITS, USE OR GOODWILL), WHETHER BASED ON CONTRACT, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY, OR ANY OTHER THEORY OR FORM OF ACTION, EVEN IF SUCH PARTY HAS BEEN ADVISED OF THE POSSIBILITY THEREOF. THE TOTAL LIABILITY OF VWR (INCLUDING ITS SUBCONTRACTORS AND AGENTS), IF ANY, FOR DAMAGES RELATING TO ANY PRODUCTS SOLD UNDER THIS AGREEMENT SHALL BE LIMITED TO THE PRICE PAID FOR SUCH PRODUCT(S) AND THE TOTAL LIABILITY OF VWR (INCLUDING ITS SUBCONTRACTORS AND AGENTS), IF ANY, FOR DAMAGES RELATING TO ANY SERVICES PROVIDED UNDER THIS AGREEMENT SHALL BE LIMITED TO THE FEES PAID FOR THE SERVICE GIVING RISE TO SUCH CLAIM.

9. Export Controls – Products purchased or received under this Agreement are subject to export control laws, restrictions, regulations and orders of the United States. Customer agrees to comply with all applicable export laws, restrictions and regulations of the United States or foreign agencies or authorities, and shall not export, or transfer for the purpose of re-export, any Product to any prohibited or embargoed country or to any denied, blocked, or designated person or entity as mentioned in any such United

States or foreign law or regulation. Customer represents and warrants that it is not on the Denied Persons, Specially Designated Nationals or Debarred Persons List and is not otherwise prohibited by law from purchasing the Products or services hereunder. Customer shall be responsible to obtain any license to export, re-export or import as may be required.

10. Proprietary Information – Each party (a "Recipient") shall maintain in confidence, not disclose to any third party, and not use, except for the specific purpose of performing under this Agreement, all proprietary information furnished to it by the other party (a "Discloser") or any Discloser Affiliate in connection with this Agreement, or derived from the Discloser or any Discloser Affiliate in performance of this Agreement, and shall return to the Discloser or a Discloser Affiliate, upon request, all copies (then in Recipient's possession) of documents and other tangible media furnished by or derived from Discloser or such Discloser Affiliate, respectively, in connection with the performance of this Agreement. The Recipient shall inform its employees, agents, and representatives of these obligations and shall require them to assume equivalent obligations.

11. Miscellaneous

(a) Termination - This Agreement may be terminated by either party for convenience at any time upon reasonable written notice delivered to the other party. In the event of any termination or expiration of this Agreement, Customer shall be billed immediately for Products shipped through the effective date of such termination or expiration and all custom Products purchased for Customer in VWR's inventories at such date, and Customer shall pay the invoiced amount immediately upon receipt of such invoice.

(b) Force Majeure - In the event either party is prevented in whole or in material part from performing its obligations under this Agreement solely as a result of force majeure, upon the prompt giving of notice to the other party detailing such force majeure event and its anticipated duration, the obligations of the party so prevented shall be excused during such period of delay, and such party shall take whatever reasonable steps are necessary to relieve the effect of such cause as rapidly as possible.

(c) Merger, Modification, Waiver - No amendment, modification or waiver of these terms shall be binding on either party unless reduced to writing and signed by an authorized officer of the party to be bound, and in the case of a waiver, shall be effective only in the specific instance and for the specific purpose for which given, and shall not be construed as a waiver of any subsequent breach. The failure of either party to enforce at any time or for any period of time any of the provisions of this Agreement shall not be construed as a waiver of such provisions or of the right of such party thereafter to enforce each and every such provision. No course of dealing, usage of trade or course of performance shall supplement, explain or amend any term, condition or instruction of this Agreement, or any shipment of Products hereunder.

(d) Applicable Law - This Agreement is made pursuant to, and shall be construed and enforced exclusively in ac-

cordance with, the internal laws of the Commonwealth of Pennsylvania (and United States federal law, to the extent applicable), without giving effect to otherwise applicable principles of conflicts of law.

(e) Authority to Enter Into Agreement – Each party represents and warrants that it is authorized to enter into this Agreement and that in so doing it is not in violation of the terms or conditions of any contract or other agreement to which it may be a party.

f) Assignment - This Agreement shall be binding upon and inure to the benefit of the parties hereto and their respective successors and permitted assigns and designees; provided, however, neither party shall have the right to transfer, assign or delegate its rights or obligations under this Agreement or any portion thereof without the prior written consent of the other party (except that either party may assign this Agreement to a parent, subsidiary or successor corporation without such consent).

(g) Nature of Relationship - Neither party, its employees or permitted subcontractors or agents shall, under any circumstances, be considered to be an agent, partner, joint venturer or representative of the other party.

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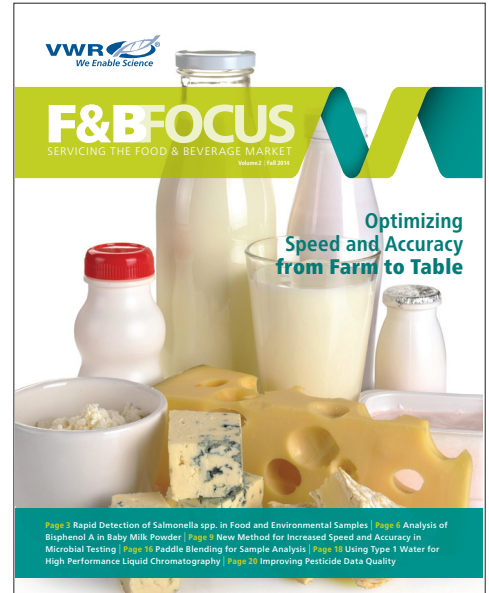
Complex Problems Require Sophisticated Solutions

For over 160 years, our customers have been challenged with finding the answers that help improve lives. Our mission is to enable this by eliminating the process complexities and identifying product and service solutions that help labs and production facilities work better, faster, and smarter.

Through our global reach and knowledgeable associates, we proudly excel in delivering solutions that improve productivity, accelerate discovery, and encourage innovation.

Delivered by a team of people
focused on your success.

Together, We Enable Science.



F&BFOCUS

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