

Volume 1 ■ 2017

VWR   
We Enable Science

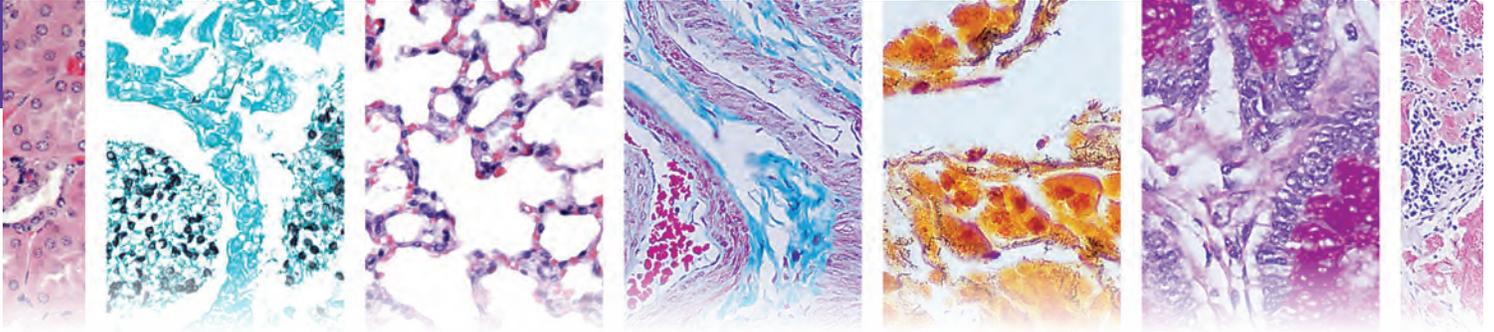
# LABVITALS

DELIVERING ESSENTIAL HEALTHCARE SOLUTIONS

**ANATOMIC  
PATHOLOGY**

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# VWR Has All You Need for Anatomic Pathology

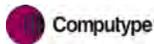


The VWR Clinical portfolio has recently expanded, offering a wide selection of products from valued suppliers to support your Histology and Clinical Chemistry applications. With the addition of 15+ new suppliers and over 3,000 new products, we continue to offer one-stop shopping with product choice. You will find products for every step of the Anatomic Pathology workflow

including Specimen Collection & Transport, Fixation & Tissue Processing, Embedding, Sectioning, Staining, Coverslipping, Archiving & Storage, and General Lab Supplies.

Visit the All You Need for Anatomic Pathology landing page for a full list of products - [vwr.com/ap](http://vwr.com/ap).

Continually growing to support your Healthcare needs.  
To learn more, contact us today!



Contact your VWR Sales Representative for consortium pricing, samples, and additional information. All prices in US dollars.



### HemoCue Hb201 + Hemoglobin System

The Hb201+ System is a point of care In-vitro analyzer used for quantitative determination of hemoglobin in capillary, venous and arterial whole blood. The microcuvette serves both as a pipette and as a measuring cuvette and is for single-use only.

- Small Sample Size - 10 uL
- Measurement range: 0 - 25.6 g/dL
- Results in under one minute



Description	Cat. No.	Price
Hb201+ Hemoglobin Analyzer	10842-886	Ea./ 797.22
<b>Microcuvettes Hb201</b>		
100/Box, 4 Boxes of 25	10842-836	Pk. 100/ 197.20
200/Box, 4 Vials of 50	10842-854	Pk. 200/ 328.14
Storage temperature: 15–30°C (59–86°F)		

These specific products are not available in Canada. Please contact your VWR Sales Representative to learn about easy access to similar options available in your region.



### Asanté™ Dried Blood Specimen Collection Strips

Ideal for the collection, transport, storage, testing, and archiving of blood specimens, including finger-stick blood, venous blood, serum, or plasma.

- Analyze for antibodies, proteins, DNA, and other biomarkers
- Quick drying time
- No hole punchers or forceps required



Description	Size	Volume, µL	Cat. No.	Pack of 100
Dried Blood Specimen Strip	60 mm <sup>2</sup> (5 x 12 mm)	16	75786-650	97.42
Dried Blood Specimen Strip	100 mm <sup>2</sup> (5 x 20 mm)	27	75786-652	97.42
Dried Blood Specimen Strip	200 mm <sup>2</sup> (10 x 20 mm)	54	75786-654	149.58
Dried Blood Specimen Strip Shipping Cards	—	—	75786-656	112.80

Visit [vwr.com](http://vwr.com) to learn more.



### Hemosure® iFOB Test Kits

Hemosure iFOBT is a sandwich dye conjugate immunoassay useful in aiding the diagnosis of several gastrointestinal disorders including diverticulitis, colitis, polyps, and colorectal cancer.

- Rapid, convenient, and odorless
- Detects as low as .05ugHb/mL
- Test results in five minutes
- No dietary or drug restrictions



Complete Test Kits	Cat. No.	Box of
<b>With Home Mailers</b>		
10 Tests	10860-946	10/ 54.60
30 Tests	10860-950	30/ 163.80
20 Tests	10861-062	20/ 109.20
20 Tests	10861-064	20/ 109.20
<b>Without Home Mailers</b>		
30 Tests	10860-956	30/ 139.23
50 Tests	10860-958	50/ 232.05

These specific products are not available in Canada. Please contact your VWR Sales Representative to learn about easy access to similar options available in your region.



### RAMP® Diagnostic Testing Solutions

RAMP Cardiac and Infectious Disease Assays are driven by rigorous quality control to assist your lab in making accurate and timely patient diagnoses. The RAMP platform provides rapid results in a small footprint with the speed, precision and accuracy of your central lab system.



- High quality, rapid detection
- No calibration or maintenance
- Self-diagnostic and internal quality control checks
- Compliance features and LIS connectivity
- 100% Manufactured in North America

RAMP Platform Test Kits	Cat. No.	Kit of 25 Tests
RAMP Troponin I	75850-416	330.00
RAMP NT-proBNP	75850-422	440.00
RAMP Influenza A + B	75850-430	310.00

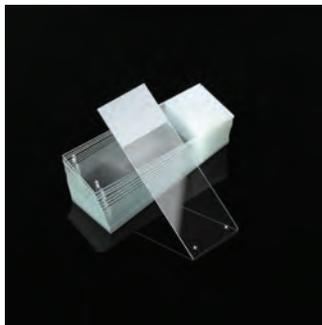
Visit [vwr.com](http://vwr.com) to learn more about our RAMP Acute Care Diagnostic Platform.



Clearly Superior. **Diamond™ White Glass** microscope slides

### Charged Microscope Slides

Produced from the finest quality white glass, Diamond™ White Glass charged microscope slides provide the ideal surface for cell and tissue adhesion. These popular slides are ideal for use in histology, cytology, and pathology departments. They are available in assorted colors and are pre-cleaned and ready to use.



- Adhesive surface
- Color coded on one end, one side
- Ground edge with 90° corners
- Dimensions: 25 x 75mm
- Thickness: 1.1mm
- Packaging: 72/plastic box, 20 boxes/case

Color	Cat. No.	Pack of 72	Case of 1,440
Frosted, white	89500-496	73.93	1108.94

Eight additional colors available; visit [vwr.com](http://vwr.com).

### Plastic Test Tubes

Globe Scientific offers an extensive line of multi-use plastic test tubes. They are molded from either premium grade polystyrene for clarity, or polypropylene for impact strength and stability to common acids, alkalis, and solvents.



- Broad range of sizes are sure to fit most laboratory applications
- Polystyrene tubes can withstand 1500 RPM
- Polypropylene tubes can withstand 3000 RPM, and are autoclavable and freezable

Test Tube	Capacity, mL	Size, mm	Cat. No.	Pack of
Polystyrene, for Use in Instruments	5	12 x 75	89497-798	1,000/ 41.74
Polypropylene, Natural	5	12 x 75	89497-814	1,000/ 37.90
Polystyrene, Non-Graduated	5	13 x 75	60819-970	1,000/ 31.01
Polypropylene, Non-Graduated	5	13 x 75	60819-968	1,000/ 58.60
Polystyrene, Non-Graduated, No Rim	12	16 x 100	89497-828	2,000/ 162.27
Polypropylene, Non-Graduated, No Rim	12	16 x 100	89497-832	2,000/ 188.57

Additional sizes and styles available; visit [vwr.com](http://vwr.com).

When you can't  
compromise between  
sample quality and efficiency,

# The choice is clear

## BD Vacutainer® Barricor™ Plasma Blood Collection Tube



### Fast results

Separate plasma in as little as 3 minutes, enabling faster treatment decisions



### Clean, high quality plasma sample

Reduces cellular contamination by 50 to 65 percent and eliminates gel artifacts



### Improves lab workflow and may lower costs

Reduces tube remediation, sample recollects, and instrument downtime



Draw Volume, mL	Dia. x L, mm	Cat. No.	Pack of 100	Case of 1,000
3.0	13 x 75	75840-176	61.50	600.00
3.5	13 x 100	75840-178	61.50	600.00
4.5	13 x 100	75840-180	61.50	600.00
5.5	13 x 100	75840-182	61.50	600.00



These specific products are not available in Canada. Please contact your VWR Sales Representative to learn about easy access to similar options available in your region.

## Puritan Swabs for Efficient Collection and Elution

Puritan's wide range of swabs are ideal when collecting histology specimen for oral, cervical, skin, gastro testing and more. Our patented PurFlock Ultra® and HydraFlock® swabs provide the most efficient collection and elution in the market. The unique microstructure of HydraFlock's multi-length fibers enhance rapid absorption and quickly release of biological specimens. Puritan's cytology brushes – Histobrush®, are made with soft, tapered nylon bristles for cervical specimen collection, Pap smear tests, and buccal collection for DNA lineage. The Cervex-Brush® has semi-circular polyethylene bristles of various lengths to collect endocervical, ectocervical, and transformation zone cells without the use of a spatula. The Cervex-Brush® Combi replaces the middle bristles of the Cervex-Brush with a complete endocervical brush to allow for simultaneous Pap smear collection of ectocervical and endocervical cells with a single device insertion. Endocervical brush is a cytology collection device for chlamydia/gonorrhea testing, liquid-based Pap smear preparation/testing, and traditional sample preparation.



- Bacterial or micro-organism collection
- Buccal cell collection
- Specimen collection
- Forensic evidence collection
- Rapid diagnostics testing
- DNA testing
- Cervical specimen collection
- Veterinary use

Description	Type	Length, mm (in.)	Sterility	Cat. No.	Pack of	Case of
Puritan HydraFlock & PurFlock Ultra Specimen Collection Devices with Polystyrene Handles	Standard Tip, 80 mm Breakpoint	153.4 (6.04)	Nonsterile	89194-862	10/ 24.00	10/ 210.86
	Standard Tip, 80 mm Breakpoint		Sterile	89194-872	50/ 21.00	10/ 186.57
	Standard Tip, 80 mm Breakpoint		Nonsterile	89194-882	10/ 21.00	10/ 181.78
	Standard Tip, 80 mm Breakpoint		Sterile	89194-893	50/ 17.43	10/ 155.41
	Elongated Tip, 30 mm Breakpoint	152.4 (6)	Nonsterile	10124-668	100/ 36.00	10/ 359.86
	Elongated Tip, 30 mm Breakpoint		Sterile	10124-664	50/ 37.23	10/ 310.21
	Elongated Tip, 30 mm Breakpoint		Nonsterile	10124-670	100/ 29.88	10/ 298.80
	Elongated Tip, 30 mm Breakpoint		Sterile	10124-676	50/ 28.76	10/ 287.57
Puritan Histobrush Cytology Brushes	Tapered Cytology Brush	203.2 (8)	Nonsterile	10808-142	100/ 100.00	10/ 910.31
			Sterile	10808-144	100/ 93.05	10/ 852.60
	Cervex-Brush		Nonsterile	95056-636	–	875/ 752.13
	Cervex-Brush Combi		Nonsterile	95056-638	–	100/ 133.29
	EndoCervex-Brush		Nonsterile	10808-150	–	1000/ 490.71



## VWR® Prefilled Histology Containers

Containers are half-filled with 10% neutral buffered formalin, for the collection and transport of tissue samples.

- Packaged in transport packs with handles
- Dual thread closure and a leak-resistant seal
- 95kPa compliant



Capacity, mL	Cat. No.	Case of
20	16004-112	20/ 400.30
40	16004-115	40/ 67.99
60	16004-117	60/ 87.73
90	16004-119	90/ 93.68
120	16004-121	120/ 113.30
180	16004-122	180/ 325.08
240	16008-000	240/ 157.56
480	16004-124	480/ 237.09
1000	16004-130	1000/ 204.78



## VWR® Biohazard Specimen Bags

VWR Biohazard Specimen Bags are designed for safe and secure transport of a specimen container and documentation; 2mil bags feature a pouch to keep the paperwork separate from the container. All have a self-sealing closure and are tamper evident.



Dimensions cm (in.)	Cat. No.	Case of 500
15.2 x 22.9 (6 x 9)	11215-684	161.21
22.9 x 30.5 (9 x 12)	11215-682	296.44



### PAXgene® Blood RNA Tubes

Immediate Stabilization of intracellular RNA from Whole Blood to Enhance Accuracy and Reproducibility of Gene Expression Data

Preservation with a legacy

- Part of the PAXgene Blood RNA System—the first in vitro diagnostic product intended for the collection, storage and transportation of blood and stabilization of intracellular RNA in a closed tube with subsequent isolation and purification of intracellular RNA from whole blood for molecular diagnostic testing
  - CE-marked and FDA-cleared; performance characteristics established for IL1B and FOS transcripts
- Provides exceptional performance in real-world conditions in a broad variety of applications
- One tube integrates blood collection, stabilization, transport, and storage

Description	Cat. No.	Case of 100
PAXgene Blood RNA Tubes	77776-026	1054.00



These specific products are not available in Canada. Please contact your VWR Sales Representative to learn about easy access to similar options available in your region.

### PAXgene Blood DNA Tubes

First Blood Collection Tube Cleared for in vitro Diagnostic DNA Testing

A step ahead

- The PAXgene Blood DNA Tube is CE-marked and FDA-cleared
- Streamlines workflow
  - One tube integrates blood collection, stabilization, transportation, and storage
  - Provides validated yield and purity under various conditions, thereby streamlining self-validation
  - 2-D barcode automates sample handling, reducing labeling errors
  - Unique cap color helps avoid mishandling of tube
- Minimizes draw volume with 2.5mL tube for increased compatibility with study design requirements

Description	Cat. No.	Pack of 100	Case of 1,000
PAXgene Blood DNA Tubes	10859-986	30.75	307.50

Visit [vwr.com](http://vwr.com) to learn more.





## Reduce False Positives Using POLYVIEW<sup>®</sup> PLUS HRP Detection Reagents

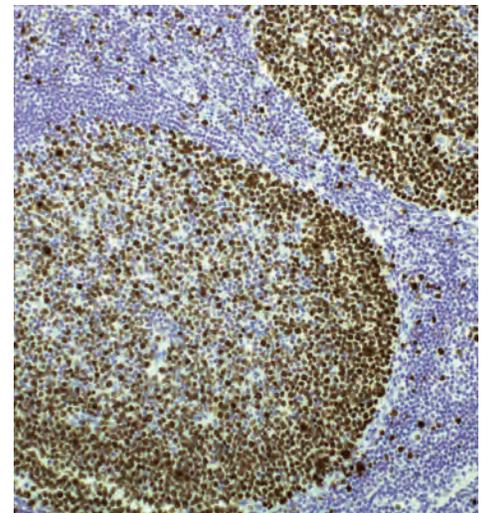
*Adapted from an article written by Dr. Gerard Nuovo, Ohio State University Comprehensive Cancer Center*

Immunohistochemistry (IHC) is a widely used biological technique which allows the researcher to analyze the anatomy of the tissue of interest and to visualize the distribution, localization, and intensity of expression of a specific antigen or cellular components in health and disease. It is an important tool for scientific research as evidenced by an exponential increase in publications in IHC applications over the last few decades. Many improvements in the field of IHC have greatly expanded the application of this technique. Pathologists can now make definitive diagnoses and treatment decisions based on cellular presence or absence of a particular antigen. Robust methods of generating antigen-specific antibodies and automation of the assay are but a few of the advances that have contributed to the successful application of IHC in differential

diagnoses, which were not possible by conventional analysis with hematoxylin and eosin (H&E) staining.

### Steps in IHC Detection

There are three major steps in IHC: (A) binding of the primary antibody to a specific antigen, (B) formation of an antibody-antigen complex following the addition of a secondary enzyme-conjugated detection antibody and finally, (C) presence of a chromogenic substrate, which in the presence of an enzyme leads to the generation of a colored deposit at the site of the antibody-antigen complex. When performed manually, IHC can be a lengthy process that is prone to errors. In order for a histopathology laboratory to deliver IHC results to clinicians in a consistent and timely manner, there is a need to process hundreds of



POLYVIEW PLUS HRP DAB (Anti-Rabbit) Kit used to stain tonsil tissue.

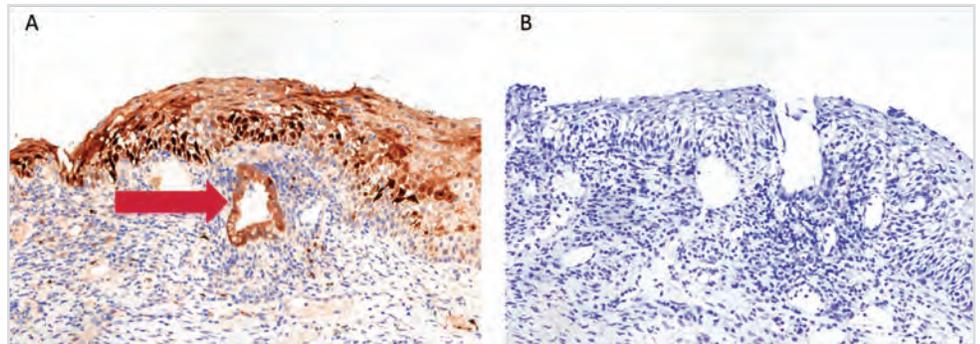


samples efficiently. Cost-saving and reliable high-throughput staining capabilities are therefore essential for histopathologists and researchers alike. Automated platforms with slide staining features have been developed to execute time-consuming processes. They offer the advantages of programming reagent additions in a pre-determined manner as well as rinsing/washing in between periods of incubation. These developments have allowed the end user to optimize staining conditions in terms of primary antibody dilution, detection reagents, and chromogens for each individual marker with the principal goal of achieving maximum sensitivity and specificity, minimizing non-specific binding while reducing time to result and cost. There are many commercially available kits and automated platform employed in diagnostic IHC facilities. The automated systems from competitor L and competitor V are widely used. As they are “open systems,” they offer the flexibility to use detection reagents and chromogens of choice.

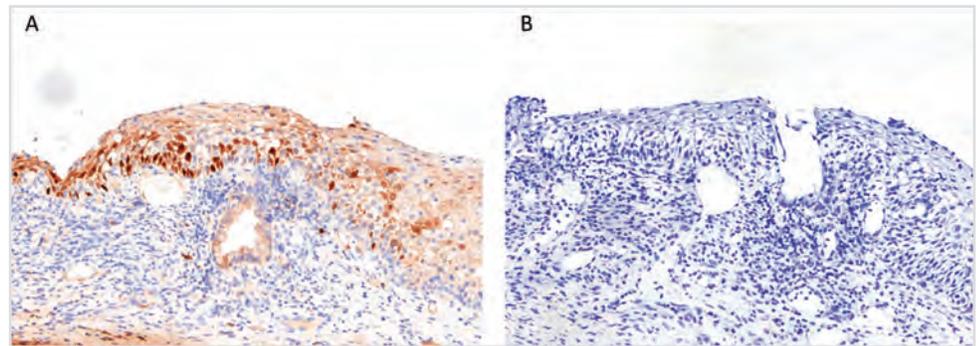
#### Identification of False Positives

It is well documented that variables such as antibody concentration, incubation time of the primary antibody and detection kit can provide both false-negative and false-positive results. The most commonly used catalytic enzyme in diagnostic IHC is horseradish peroxidase (HRP), which has some disadvantages such as susceptibility to interfering factors, unstable sensitivity, and high discrepancy between laboratories. Endogenous peroxidase activity is found in many tissues and can be detected by reacting fixed tissue section with 3, 3'-diaminobenzidine (DAB) substrate. Consequently, false positives are noticed due to inappropriate activity of the peroxidase in cells that do not contain the antigen of interest.

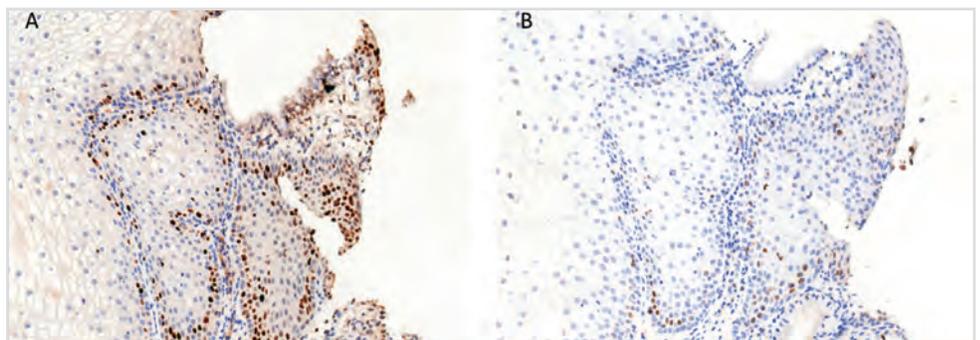
Professor Nuovo, from Ohio State University Comprehensive Cancer Center, performed a side-by-side comparison of HRP conjugate from competitor L, competitor V, and Enzo Life Sciences on a Leica BOND-MAX platform. The study focused on surgical biopsy samples where histologic diagnosis was confirmed by hematoxylin and eosin (H&E) staining. Ki-67 and p16 are two markers commonly used by clinicians to distinguish human papillomavirus (HPV)-positive cervical intraepithelial neoplasia (CIN) from HPV-negative mimics of CIN. As expected, all CIN1 lesions were positive for Ki-67



**Figure 1.** Serial sections of cervical tissue, known negative for CIN and p16. Enzo's reagents correctly show a negative result for p16, while Competitor L reagents show a false positive. The arrow illustrates staining of a gland, which indicates Competitor L reagents stain with high background.



**Figure 2.** Serial sections of cervical tissue, known negative for CIN and p16. Competitor V reagents show an incorrect positive result for p16, while Enzo's reagents correctly show no staining.



**Figure 3.** Serial sections of cervical tissue, known negative for CIN and Ki-67. Enzo's IHC reagents show a low baseline level of Ki-67 in cells negative for CIN and Ki-67. Competitor V reagents show an incorrect result of a strong positive in a serial tissue section.

and p16 with all three HRP conjugates. False positive results were obtained in 29% and 50% of CIN mimics using the competitors L and V HRP conjugates, respectively. Using Enzo's POLYVIEW PLUS HRP reagents, staining specificity was dramatically improved as mimics of CIN were found to be negative for both Ki-67 and p16.

Similar experiments were performed looking at the expression of HER2/neu in triple-negative breast cancers, Ki-67 in leiomyomas, and HMB45 in metastatic thyroid cancer and melanoma. The author demonstrated that false positives ranged from 13 to 36% when using competitors L and V, detection reagents while there was no false



positive signal with Enzo’s detection reagents regardless of the target and the tissue origin.

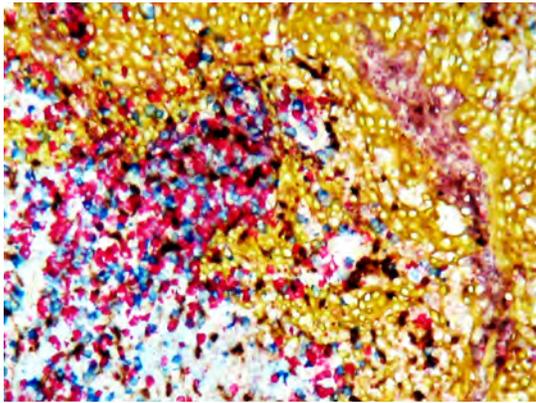
**Conclusion**

The results from this study points to the background staining issues as a causative factor leading to false-positives in IHC diagnostic application. A precise explanation for the observed high background cannot be advanced given the proprietary composition of HRP conjugates. One possibility for the superior performance of Enzo HRP conjugate could be

that the formulation of the reagents minimizes non-specific binding to cells that do not contain the epitope of interest. Immunohistochemistry using antibodies to beta amyloid, alpha synuclein, ubiquitin, huntingtin, polyglutamine, and others has become a routine tool for sensitive detection and quantification of these abnormal proteins in both human tissues and in experimental animals that are used to model some of the features of these diseases. This study suggests that false positive results can be minimized by considering the source of the HRP conjugate. The POLYVIEW PLUS IHC

detection reagents enable stronger staining with significantly fewer false positive results.

Enzo Life Sciences offers histopathologists a comprehensive portfolio for Immunohistochemistry including antibodies, tissue microarrays, retrieval reagents, detection reagents, and a wide variety of chromogens allowing multi-color immunohistochemistry staining.



Formalin-fixed paraffin-embedded human tonsil stained with pre-diluted mouse CD68 antibody labeled with HIGHDEF® IHC chromogen substrate (DAB, HC) (Cat. No. **10049-362**), pre-diluted rabbit lambda light chain antibody labeled with HIGHDEF blue IHC chromogen (AP) (Cat. No. **10049-336**, blue), pre-diluted rabbit kappa light-chain antibody labeled with HIGHDEF red IHC chromogen (AP, plus) (Cat. No. **10049-334**, red), high molecular weight cytokeratin labeled with HIGHDEF yellow IHC chromogen (HRP) (Cat. No. **10049-340**, yellow), and methyl green nuclear counterstain.

**Brilliant Colors. Powerful Results. IHC Detection Kits & Chromogens**

Improve Your Workflow with a Complete Range of Innovative IHC Detection Tools

Enzo offers a complete range of products to help improve the quality and efficiency of your IHC process from start to finish. Our high-sensitivity and low background reagents, combined with the market’s most extensive palette of unique chromogens, provide the flexibility needed for simple or complex protocols.

- POLYVIEW® PLUS non-biotinylated nanopolymer detection reagents for minimal background without sacrificing signal
- HIGHDEF® chromogens for high sensitivity and intensity
- MULTIVIEW® kits for multiple detection of antigens in a single tissue sample
- Detection reagents and chromogens validated to produce impeccable results both manually and on automated stainers
- Over 1,000 IHC validated antibodies

Description	Size	Cat. No.	Each
Antigen Retrieval Reagent, pH 9 (10X)	100 mL	75841-150	120.00
HIGHDEF Black IHC Chromogen (HRP)	6 mL	10014-558	79.49
HIGHDEF Green IHC Chromogen (AP)	30 mL	10049-338	153.68
HIGHDEF Hematoxylin	100 mL	75841-140	50.00
HIGHDEF IHC Chromogen Substrate (AEC, Stable)	30 mL	10049-360	117.63
HIGHDEF IHC Chromogen Substrate (AEC, Stable)	30 mL	10049-360	117.63
HIGHDEF IHC Enhancer (AP)	250 mL	10049-342	134.43
HIGHDEF IHC Enhancer (DAB)	10 mL	10049-344	144.93
HIGHDEF IHC Enhancer (DAB, plus)	15 mL	10049-346	144.93
HIGHDEF IHC Fluoromount	25 mL	10051-960	126.03
HIGHDEF IHC Mount	30 mL	10049-770	65.86
HIGHDEF Red IHC Chromogen (AP)	30 mL	10049-756	90.95
HIGHDEF Red IHC Chromogen (AP, Plus)	30 mL	10049-334	421.32
IHC Antigen Retrieval Reagent, 10X Citrate, pH 7.0	500 mL	10049-774	91.37
IHC Antigen Retrieval Reagent, 10X EDTA, pH 8.0	500 mL	10049-778	98.72
IHC Antigen Retrieval Reagent, 10X Tris, pH 10.0	500 mL	10049-782	319.27
IHC Diluent (AP)	1 L	10049-370	203.74
IHC Diluent (Peroxidase I)	100 mL	10049-372	175.39
IHC Diluent (Peroxidase II)	100 mL	10051-954	175.39
IHC Diluent (Primary Ab)	250 mL	10051-956	112.37
IHC Enzyme Antigen Retrieval Reagent	15 mL	10049-784	143.23
IHC Fast Red Salt Tablets Kit	100 tests	10049-350	117.63
IHC PAP Mini Pen	1 Pen	10049-766	78.59
IHC PAP Pen	1 Pen	10049-768	101.19
IHC PBS Tablets	100 mL	10049-368	98.72
IHC Tissue Primer	100 mL	10049-364	164.89
IHC Universal Negative Control Reagent	25 mL	10049-764	112.37
IHC Wash Buffer	1 L	10049-366	117.09
IHC/ISH Peroxidase Block	100 mL	75841-142	350.00
MULTIVIEW (Mouse-HRP/Mouse-AP) IHC Kit	100 tests	10051-946	317.82
MULTIVIEW (Mouse-HRP/Rabbit-AP) IHC Kit	100 tests	10051-944	361.70
POLYVIEW (Mouse on Mouse-HRP) IHC Kit	25 tests	10014-542	264.94
POLYVIEW (Mouse on Mouse-HRP) IHC Kit	100 tests	10014-544	1059.77
POLYVIEW PLUS HRP-DAB (Anti-Rabbit) Kit	150 tests	75841-152	675.00
POLYVIEW PLUS HRP-DAB (Anti-Rabbit) Kit	150 tests	75841-154	675.00
POLYVIEW PLUS AP (Anti-Rabbit) Reagent	150 tests	75841-148	780.00
POLYVIEW PLUS HRP (Anti-Mouse) Reagent	150 tests	75841-136	780.00
POLYVIEW PLUS HRP (Anti-Rabbit) Reagent	150 tests	75841-134	780.00
SAVIEW PLUS HRP Reagent	150 tests	75841-132	750.00

See [www.vwr.com](http://www.vwr.com) for complete product listing.



Introducing

### BD Veritor™ Plus System

- The BD Veritor Plus System provides trusted results in minutes\* to aid in confident diagnosis, with single button functionality. InfoScan Module works with the BD Veritor Plus Analyzer to provide scanning capabilities of specimen ID, operator ID, and lot/expiration.
- CLIA-waived for the rapid detection of Flu A+B, RSV†, and Group A Strep
- Enable in analyze-now or walk-away modes
- New printing capability and documentation option



Description	Cat. No.	Each
Veritor Plus Analyzer	75846-772	299.00
InfoScan Module, Veritor Plus Analyzer	75846-752	399.00
Printer Cable	75846-754	20.00

\* Results after 10 minute incubation period for Flu A+B and RSV; after 5 minute incubation period for Group A Strep  
 † Respiratory Syncytial Virus  
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These specific products are not available in Canada. Please contact your VWR Sales Representative to learn about easy access to similar options available in your region.



### VWR® Nitrile 200 Powder-Free Gloves

- Ambidextrous with textured fingers and a rolled, beaded cuff
- Made from premium nitrile for high quality and consistency
- Packaged 200 per box to save space and reduce waste



Manufactured from 100% premium nitrile, VWR Nitrile 200 Powder-Free Examination Gloves provide hand protection against biohazards and a broad range of chemicals. 100% latex-free, these gloves eliminate adverse reactions associated with natural rubber latex proteins. Gloves are rigorously tested and manufactured under stringent process controls according to ISO 9001 and ISO 13485 to ensure that each product meets exacting quality standards.

#### Specifications

Color	Cornflower blue
Length	23 cm (9")
Cuff Thickness	2.4 mil
Finger Thickness	3.9 mil
Palm Thickness	2.8 mil

Size	Cat. No.	Box of 200	Case of 10
X-Small	89428-746	33.63	262.21
Small	89428-748	33.63	262.21
Medium	89428-750	33.63	262.21
Large	89428-752	33.63	262.21
X-Large	89428-754	33.63	262.21
XX-Large	89428-756	33.63	262.21



### VWR® Alcohol Prep Pads

Sterile, two-ply, folded, spun lace, alcohol prep pads are saturated with 70% Isopropyl Alcohol (Antiseptic).



- Soft and absorbent, non-woven pads
- Gamma sterilized
- Latex-free
- Manufactured according to FDA, GMP, and USP standards
- Fabric weight: 40 grams per square meter (GSM)

Description	L x W, cm	Cat. No.	Box of 100	Case of 2,000
VWR Alcohol Prep Pads	5.99 x 2.79	75856-902	3.15	48.50

**VWR has All You Need for Anatomic Pathology**  
 To download literature, see current promotions, or watch technical videos, visit [vwr.com/ap](http://vwr.com/ap) today!



**Integra® Miltex® Disposables**

**Buy 8, Get 1! (mix or match)**

Visit [vwr.com/promotions](http://vwr.com/promotions) and search **Promo Code 4661** for more information and a complete list of qualifying products. Your choice of redeemed goods must be of equal or lesser value of lowest priced purchased item. Offer expires 1.31.2017 and must be redeemed by 2.28.2018.

Description	Cat. No.	Box of
<b>Biopsy Punches, Standard</b>		
1.0 mm	95039-090	50/ 170.64
1.5 mm	95039-088	50/ 170.64
2.0 mm	21909-132	50/ 170.64
2.5 mm	95039-096	50/ 170.64
3.0 mm	21909-136	50/ 170.64
3.5 mm	21909-138	50/ 170.64
4.0 mm	21909-140	50/ 170.64
5.0 mm	21909-142	50/ 170.64
6.0 mm	21909-144	50/ 170.64
8.0 mm	21909-146	50/ 170.64
Assorted (10 ea: 2 mm, 3 mm, 4 mm, 5 mm, 6 mm)	95039-104	50/ 170.64
<b>Standard Scalpels, Stainless Steel Retractable Blades</b>		
#10	21909-654	10/ 34.08
#11	21909-656	10/ 34.08
#15	21909-660	10/ 34.09
<b>Safety Scalpels, Stainless Steel Retractable Blades</b>		
#10	21909-670	10/ 48.33
#11	21909-672	10/ 48.33
#15	21909-674	10/ 48.33
#15C	95039-116	10/ 48.33
<b>Surgical Blades, Carbon Steel</b>		
#10	21909-610	100/ 86.35
#11	21909-612	100/ 86.35
#15	21909-618	100/ 86.35
#15C*	21909-620	100/ 144.11
<b>Surgical Blades, Stainless Steel</b>		
#10	21909-378	100/ 86.35
#11	21909-380	100/ 86.35
#15	21909-384	100/ 86.35
#15C*	21909-642	100/ 144.42

\*C is an angled blade



Standard Biopsy Punch

Stainless Steel Safety Scalpel



designed for protection

**VWR® Sharps Container Systems**

Safe and effective containment and disposal of contaminated needles, syringes, and other sharps.

- Conveniently stackable 5.1L (5.4 quart) containers
- Biohazard labeling and symbol
- Locking lid and counterbalanced door
- Autoclavable
- Bracket compatible
- Dimensions: 26.7 x 8.9 x 26.7 cm (10½" x 3½" x 10½")



Color	Cat. No.	Case of 12
Clear	75800-276	126.91
Opaque Red	75800-274	126.91
Translucent Red	75800-272	126.91
Translucent Yellow	75800-278	126.91

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designed for  
everyday use

### VWR® Autoclavable Biohazard Bags

- High-integrity polypropylene
- Available with temperature indicator
- Resists punctures, tears, and leaks
- Ideal for processing biohazardous materials that require autoclaving prior to disposal. 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 meet the 165g dart drop standard performed as required by ASTM D1709-98. Each bag is imprinted with the universal biohazard symbol.
- Temperature 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.



Description	W x H, cm (in.)	Cat. No.	Case of
Clear	61 x 91.4 (24 x 36)	11215-904	200/ 442.26
<b>Bags with Indicator</b>			
Clear	30.5 x 61 (12 x 24)	14220-066	200/ 340.53
Clear	61 x 76.2 (24 x 30)	14220-068	200/ 432.99
Clear	61 x 91.4 (24 x 36)	14220-070	200/ 438.25
Clear	94 x 122 (37 x 48)	11215-680	100/ 779.64
Orange	20.3 x 30.5 (8 x 12)	14220-046	400/ 447.07
Orange	35.6 x 48.3 (14 x 19)	14220-048	200/ 215.74
Orange	48.3 x 61 (19 x 24)	14220-050	200/ 446.39
Orange	63.5 x 88.9 (25 x 35)	14220-052	200/ 701.31
Orange	91.4 x 114.3 (36 x 45)	14220-054	100/ 786.60
Red	20.3 x 30.5 (8 x 12)	14220-026	400/ 275.65
Red	35.6 x 48.3 (14 x 19)	14220-028	200/ 206.10
Red	48.3 x 61 (19 x 24)	14220-030	200/ 419.85
Red	63.5 x 88.9 (25 x 35)	14220-032	200/ 794.77
Red	91.4 x 114.3 (36 x 45)	14220-034	100/ 465.33
Red, Double-Thick	61 x 91.4 (24 x 36)	14221-994	200/ 1245.82
Red, Double-Thick	78.7 x 101.6 (31 x 40)	14221-996	100/ 834.42
Yellow	20.3 x 30.5 (8 x 12)	89130-796	400/ 199.57
Yellow	35.6 x 48.3 (14 x 19)	89129-468	200/ 199.57
Yellow	48.3 x 61 (19 x 24)	89129-470	200/ 316.13
Yellow	61 x 91.4 (24 x 36)	89129-472	200/ 494.73
Yellow	94 x 122 (37 x 48)	89129-474	100/ 630.16
<b>Container/Bag Starter Kits</b>			
2 gal. (8¾ x 10")	35.6 x 48.3 (14 x 19)	14221-160	100/ 126.07
3 gal. (10 x 12")	48.3 x 58.4 (19 x 23)	14221-162	100/ 169.90
12 gal. (15½ x 19½")	63.5 x 89 (25 x 35)	14221-164	100/ 313.04
<b>Containers Only</b>			
2 gal. (8¾ x 10")	-	14221-154	Ea./ 57.95
3 gal. (10 x 12")	-	14221-156	Ea./ 86.67
12 gal. (15½ x 19½")	-	14221-158	Ea./ 129.76

### NEW SFX150 SONIFIER WITH HANDHELD CONVERTER

**BRANSON**  
*makes it possible*



### Branson SFX Series Cell Disruptors

The SFX Series brings a new level of ease, precision, and repeatability with advanced energy and temperature control modes, process monitoring capabilities, and programming features.

**SFX150 Sonifier:** 150 watts of power at 40kHz, processing samples from 0.2 up to 150mL

**SFX250 Sonifier:** 250 watts of power at 20kHz, processing samples from 0.2 up to 500mL

**SFX550 Sonifier:** 550 watts of power at 20kHz, processing samples from 0.2 up to 1000mL

- Advanced energy control mode delivers precision energy input in continuous or pulse modes
- True Temperature control manages sample temperature within user-specified limits (temp. probe sold separately)
- Control modes include time, temperature, and energy
- Continuous or pulsed ultrasonics in time or energy
- In process feedback displays experimental progress together with key variables such as power level, energy usage, and sample temperature
- Up to 20 stored programs; all controls are programmable
- New SFX150 w/handheld converter offers an ergonomic grip for comfort and control, and a recessed pushbutton and LED indicator for assured operation

**Ordering information:** All units include power supply, converter, and tip or probe. Stand, temperature probe, horns, microtips, and additional accessories are also available.

Sonifier	Probe	Cat. No.	Each
SFX150, with Traditional Converter	1/8" Microtip	10820-446	3384.50
SFX150, with Handheld Converter	1/8" Microtip	75800-280	3378.39
SFX250	1/2" Tapped	10820-440	3947.04
SFX550	1/2" Tapped	10820-444	4974.04
SFX550	3/4" Solid	10820-442	5587.04



### Midas® III Automated Stainer

#### Easy to Set Up and Operate

The EMD Midas III Automated Stainer is a compact microprocessor-controlled unit that stains up to 20 slides or coverslips. Input up to nine user-programmable procedures of 29 steps each, and each step may be timed from one second to 99 minutes, 59 seconds. Unit contains four staining/reagent stations, one running water rinse station programmed to maintain 300mL increments, allowing for precision rinsing, and one forced-air drying station. The rinse and drying stations are easily converted for staining, permitting a maximum of six staining/reagent stations. Stainer is easy to set up and operate; just load reagents and slide carrier and select desired procedure. Staining vessel holds 300mL. Complete applications for peripheral blood and bone marrow staining.

Optional free-standing water bath (25445-014) provides clean rinse water if unit cannot be located nearby a dedicated deionized water system.

**Ordering Information:** Stainer features a one-year manufacturer's unconditional warranty. Supplied with a 20-position slide carrier and eight staining vessels with lids.

#### Specifications:

Dimensions	53L x 45W x 38H cm
Electrical	120/230V, 50/60Hz, 5A

Description	Cat. No.	Each
Midas III Stainer	15204-300	14,682.25
<b>Accessories</b>		
Coverslip Carrier, 20-Position	25445-044	1043.61
Manual Staining Rack System	EM-64000R-94	805.69
Performance Lubricant	EM640GPL226-94	29.62
Plastic Hood Enclosure	10183-814	699.06
Reagent Name Stickers	EM-64000RS-94	45.51
Recirculating Water Bath	25445-014	1896.87
Ryton Slide Carrier	EM-64000RSC-94	87.83
Ryton Staining Vessels with Lids	EM-64000RRV-94	94.56
Water Bath Filters	25445-016	90.05
Water Bath Pump Tubing Kit	EM-RA12291	142.24



designed for your applications

### VWR® Gram Stain Sets

- Enables easy differentiation
- Include all necessary solutions to fully differentiate Gram positive and Gram negative specimens
- All sets are packaged in a styrofoam tray and come with spout caps for easy pouring



Description	Size, Oz.	Cat. No.	Kit	Case of
Gram Stain Set	4 x 8	10143-178	96.16	6/ 518.33
Gram Stain Set	4 x 16	10143-258	80.94	4/ 287.79
<b>Replacement Sets</b>				
1:1 Decolorizer	4 x 8	10143-174	84.12	6/ 453.44
1:1 Decolorizer	4 x 16	10143-252	108.15	4/ 388.64
Crystal Violet	4 x 8	10143-168	79.94	6/ 494.06
Crystal Violet	4 x 16	10143-182	79.94	4/ 283.69
Decolorizer	4 x 8	10143-172	84.12	6/ 453.44
Decolorizer	4 x 16	10143-184	108.15	4/ 388.64
Safranin	4 x 8	10143-176	90.14	6/ 485.89
Safranin	4 x 16	10143-254	77.35	4/ 274.72
Stabilized Iodine	4 x 8	10143-170	120.18	6/ 647.84
Stabilized Iodine	4 x 16	10143-256	80.83	4/ 287.90



designed for your applications

### VWR® Histology Reagents

- Manufactured from high quality raw materials in an ISO 13485 facility
- Strict quality control release testing
- Complete product line for tissue processing



Description	Cat. No.	Each	Case of 4
Reagent Grade Alcohol, 70%	89370-078	83.82	277.80
Reagent Grade Alcohol, 80%	89370-080	83.82	277.80
Reagent Grade Alcohol, 95%	89370-082	83.82	277.80
Reagent Grade Alcohol, 100%	89370-084	84.12	279.83
Isopropyl Alcohol	89370-086	91.16	284.12
37% Formaldehyde	10790-710	49.39	123.75
10% Neutral Buffered Formalin	89370-094	45.82	152.48
Xylene	89370-088	81.60	280.71
Xylene Substitute	89370-090	82.69	279.03
D-limonene	89370-092	110.15	373.92

Featured sizes are 1 gal. rectangle shaped bottles. Visit [www.vwr.com](http://www.vwr.com) for additional size and packaging options.



designed for your applications

### VWR® Superfrost® Plus Micro Slides

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. Slides have an opaque coating that retains most laboratory marking methods.

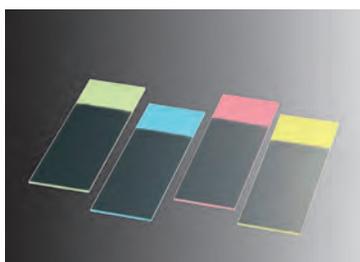


- Ideal for frozen tissue sections and cytology preparation applications
- Opaque coating reliably retains laboratory markings
- Thickness: 1 mm; Color: White

L x W, mm (in.)	Cat. No.	Pack of 72	Case of 1,440
75 x 25 (3 x 1)	48311-703	74.51	1203.59

### VWR VistaVision™ Color-Coded Microscope Slides

- Color-coded ends facilitate sorting and identification
- Uniform size and thickness
- Ultra thin color frosted end facilitates processing on automated systems
- Size: 75 x 25 mm; Thickness: 1 mm



Color	Cat. No.	Pack of 72	Case of 1,440
Aqua	16004-396	40.56	595.73
Blue	16004-384	41.48	595.73
Green	16004-392	41.67	595.73
Lilac	16004-398	41.67	595.73
Pink	16004-390	41.67	595.73
White	16004-382	41.67	595.73
Yellow	16004-388	41.67	595.73



### VWR® Slide Storage Cabinet

This rugged Slide Storage Cabinet is manufactured from 24 gauge steel with a baked epoxy finish to ensure that slides can be stored with confidence. It holds up to 5000 standard 1x3" slides, and the plastic drawer divider can be removed to store slides up to 2" in width.

The cabinets are stacked by utilizing built-in tabs in the bottom of each unit (up to ten feet high). Due to this design, the Cabinet Base is required under the first cabinet to prevent an unstable condition.

- Accommodates up to 5,000 slides
- Each cabinet includes six drawers, each drawer holding 830 slides
- Drawers slide easily and can be removed for easy transport

Ordering Information: Each Cabinet is supplied with a pack of identification labels and a pack of sponge block spacers. Additional storage drawers (80086-980) may be purchased as a separate accessory item.

Description	Dimensions, W x L x H, cm (in.)	Cat. No.	Each
Slide Storage Cabinet	40 x 48.3 x 12.7 (15¾ x 19 x 5)	80086-976	316.95
Slide Storage Base	40 x 47.6 x 6.9 (15¾ x 18¾ x 2¾)	80086-978	137.99
Slide Storage Drawer	10.2 x 49.5 x 7.6 (4 x 19½ x 3)	80086-980	33.48



## The VWR Furniture Catalog

Whether you're looking to build a new lab or renovate an existing one - check out VWR's all new Furniture Catalog!

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## Custom Specimen Collection Kits by



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