

Breweries

The products you need for reliable beer analysis.

Breweries need to carefully monitor all stages of production – from analyzing raw materials and drinking water, to in-process and disinfection controls, and finally testing the finished product and wastewater. Beer quality and consistency are judged through parameters such as bitterness, flavonoids, free amino nitrogen, color, calcium and zinc content, and microbiological contamination.

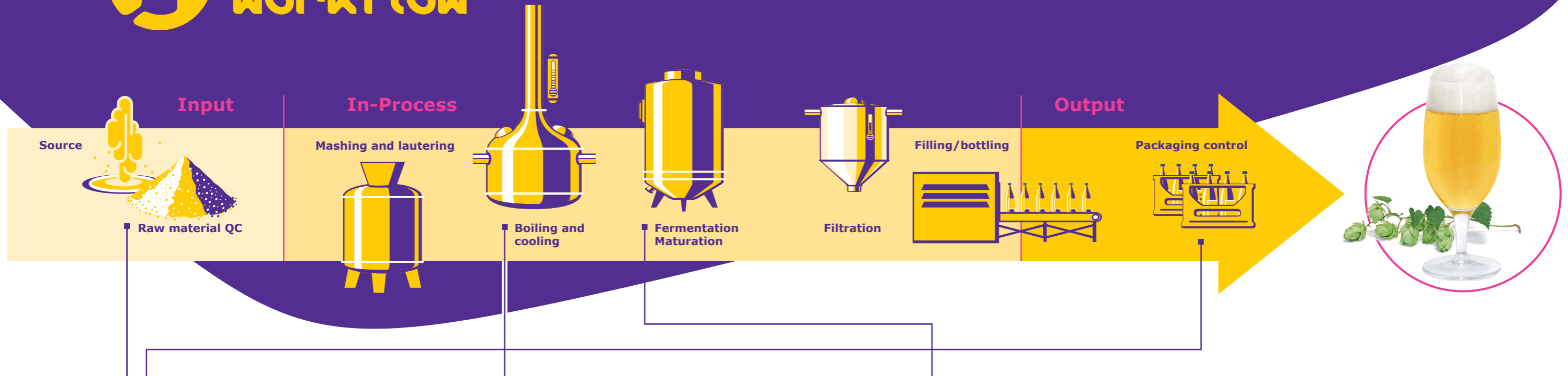
This brochure shows the products you need for reliable beer analysis. In particular, Spectroquant® Prove spectrophotometers feature pre-programmed methods according to international standards to help you quickly and accurately monitor beer quality and maturity.



The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the U.S. and Canada.



BREWERY WORKFLOW



Quality Control

Chromatography

- HPLC, GC, TLC
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- Solvents and inorganic reagents
> [Page 7](#)



Spectrophotometry

- Spectroquant® Prove 300
> [Page 4](#)
- Brewery methods acc. to international standards
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Reference materials

- Certipur®
> [Page 8](#)



Microbial and pathogen testing

- Dehydrated culture media
> [Page 16](#)



Physical parameters

- Turbidimeter, e.g. Turbiquant® 3000
> [Page 10](#)



Ingredient and nutritional testing

- Karl Fischer - reagents
> [Page 9](#)



In-Process Control

Semi-quantitative testing

- pH strips and paper
> [Page 14](#)
- MQuant™ test strips, e.g. glucose, calcium
> [Page 12](#)



Quantitative testing

- Test strips
• Reflectoquant®
> [Page 11](#)



Microbial testing

- Air sampler, e.g. MAS-family
> [Page 16](#)



Reference materials

- Certipur®
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CHECK METHODS FOR BEER ANALYSIS

For more information on the preprogrammed methods of beer analysis see page 5

SPECTROQUANT® PROVE SPECTROPHOTOMETERS

Three perfect models. Just choose.



Spectroquant® Prove 100
VWR Cat. No. EM1.73016.0001

For routine applications

Prove 100 is the best choice for those who primarily use our broad range of Spectroquant® test kits, or only perform Vis measurements. High quality and great value for money for your daily analyses.

Spectroquant® Prove 300
VWR Cat. No. EM1.73017.0001

For sensitive measurements

Thanks to its long-lasting xenon lamp, Prove 300 is ideal for more intensive use. What's more, it is capable of both UV and Vis measurements, so you have greater flexibility for more intricate analyses.

Spectroquant® Prove 600
VWR Cat. No. EM1.73018.0001

For complex analyses

Designed for high-end UV/Vis optics, and cells of up to 100 mm, Prove 600 packs great power into a compact size. Excellent resolution and sensitivity for use with test kits, complex kinetics or spectral measurements.

Specifications		Prove		
		100	300	600
Measuring Technology	Spectrophotometer with reference beam technology	■	■	■
Wavelength Range	Vis (320 – 1,100 nm)	■	■	■
	UV (190 – 320 nm)		■	■
Lamp Type	Tungsten Halogen Lamp	■		
	Xenon Flash Lamp		■	■
Ambient Light Protection	Measurement with open shaft possible due to proprietary solution (patent pending)	■	■	■
Spectral Bandwidth	4 nm	■	■	
	1.8 nm			■
Smart Screen Display	Resistive touch screen	■	■	
	P-cap glass touch screen			■
Live ID System	2-D Barcode recognition for cell tests and reagent tests	■	■	■
	Barcode contains lot, expiry, and calibration data. Data stored with each measurement	■	■	■
Cell Size	16 mm round cells, 10, 20 and 50 mm rectangular cells with automatic recognition	■	■	■
	100 mm rectangular cells with automatic recognition			■
Cell Holder	Removable for easy cleaning	■	■	■
Methods	Programmed methods of all Spectroquant® cell and reagent tests, 99 user defined methods, 20 profiles for kinetics and absorbance scans each	■	■	■
Applications	Free preprogrammed applications: Bromate, Brewery packages (MEBAK/EBC/ASBC methods), Sugar (ICUMSA), Oil (DOBI, olive oil)	■	■	■
AQA Prime	Individual settings for all methods in AQA 1 (instrument check) and AQA 2 mode (system check) and pipette check	■	■	■
Sample Matrix Check	Easy access through setting menu to perform instrument supported matrix check for each method	■	■	■
Software Updates	Free method updates on our website	■	■	■
Languages	Navigation in 28 built-in languages	■	■	■
Communication Interfaces	USB: 2 x USB-A (for printer, USB memory devices, keyboard or barcode reader), 1 x USB-B; Ethernet: LAN connection	■	■	■

SPECTROQUANT® PROVE SPECIAL APPLICATIONS

Determination	Measuring Range	Method	Prove			
			100	300	600	
A ∂ Acids	0 – 80 mg/L	Own Coloring	■	■	■	
	Anthocyanogens (Harris and Ricketts method)	0 – 100 mg/L	Acidic Hydrolysis	■	■	■
B Bitterness – Beer (EBC method)	1 – 80 BU	UV-Absorption		■	■	
	Bitterness – Wort (EBC method)	1 – 120 BU	UV-Absorption		■	■
C Color (EBC method)	0.0 – 60.0 EBC Units	Own Coloring	■	■	■	
	Copper (EBC method)	0.10 – 5.00 mg/L Cu	Cuprethol	■	■	■
F Flavonoids (EBC method)	3.0 – 200.0 mg/L	4-(Dimethylamino)-cinnamaldehyde	■	■	■	
	Free Amino Nitrogen (Beer/Wort)	0 – 400 mg/L	Ninhydrin	■	■	■
I Iso-∂ Acids	0 – 60 mg/L	UV-Absorption	■	■	■	
	Iron (EBC Method)	0.000 – 1.000 mg/L Fe	Ferrospectral®	■	■	■
	Iron (EBC Method)	0.000 – 0.800 mg/L Fe	Ferrospectral®	■	■	■
N Nickel (EBC Method)	0.00 – 5.00 mg/L Ni	Dimethylglyoxime	■	■	■	
P Photometric Iodine Test	0.00 – 0.80	Iodine	■	■	■	
R Reducing Power, Spectrophotometric	0 – 100%	DPI	■	■	■	
S Steam-Volatile Phenols Malt Beer	0.00 – 3.00 mg/kg	Aminoantipyrine Extractive	■	■	■	
	0.00 – 0.30 mg/kg					
T Thiobarbituric Acid Number (TAN)	0 – 250 TAN	Thiobarbituric Acids	■	■	■	
	Total Carbohydrates (EBC Method)	0.000 – 6.000 g/100 mL	Anthrone	■	■	■
Total Polyphenols (EBC Method)	0 – 800 mg/L	Iron (III)	■	■	■	
V Vicinal Diketones	0.00 – 1.00 mg/kg	Phenylenediamine	■	■	■	



The new Spectroquant® Prove software package, "Analysis methods for the brewery industry", contains all 21 methods required for complete beer analysis – from raw materials to finished product. The test procedures follow MEBAK (Mittleeuropäische Brautechnische Analysenkommission), EBC (European Brewery Convention) or ASBC (American Society of Brewing Chemists) methods.

To further support your analysis, the accompanying manual provides step-by-step instructions for reagent preparation, sample processing and analysis. The package also includes information about test solution stability and storage, which aren't provided in the standard MEBAK method description.

ANALYTICAL CHROMATOGRAPHY

Do you need to separate the compounds in your sample, or require more detailed investigation? We offer a wide range of advanced chromatography and sample preparation products to support your application.

HPLC columns for different separations

- Chromolith®: Low pressure, fast analysis, long column lifetime [VWR Cat. No. **EM1.52022.0001**]
- Purospher® Star: Excellent peak symmetry, high separation efficiency, extended pH stability, batch-to-batch reproducibility [VWR Cat. No. **48219-488**]
- SeQuant® ZIC®-HILIC and ZIC®-cHILIC: Superior selectivity for separating polar hydrophilic compounds [VWR Cat. No. **10144-126**]



Thin layer chromatography from the world leader

Coating Material	Format [cm]	Layer Thickness	Content	Backing	VWR Cat. No.
TLC Silica Gel 60 F254	20 x 20	250 µm	25 Plates	Glass	EM1.05715.0001
	10 x 20	250 µm	50 Plates	Glass	EM1.05729.0001
	5 x 20	250 µm	100 Plates	Glass	EM1.05714.0001
	5 x 10	250 µm	200 Plates	Glass	EM1.05719.0001
	2.5 x 7.5	250 µm	500 Plates	Glass	EM1.15341.0001
	2.5 x 7.5	250 µm	100 Plates	Glass*	EM1.05794.0001
	2.5 x 7.5	250 µm	100 Plates	Glass**	EM1.15327.0001
TLC Silica Gel 60	20 x 20	200 µm	25 Sheets	Aluminum	EM1.05554.0001
	5 x 20	200 µm	100 Sheets	Aluminum	EM1.05534.0001
	20 x 20	200 µm	25 Sheets	Plastic	EM1.05735.0001
HPTLC Silica Gel 60 F254	20 x 20	250 µm	25 Plates	Glass	EM1.05721.0001
	20 x 20	200 µm	25 Sheets	Aluminum	EM1.05553.0001
HPTLC Silica Gel 60 F254	20 x 10	200 µm	50 Plates	Glass	EM1.05642.0001

* Paper box
** Plastic box



SOLVENTS & INORGANIC REAGENTS

Instrumental Analysis Solvents for

HPLC, LC/MS, Spectroscopy/Spectrophotometry, Gas Chromatography, UV/VIS and infrared spectroscopy

EMPARTA Solvents

- Specification in accordance with newest edition of ACS

EMSURE Solvents

- Premium grade for all regulated and highly demanding lab applications



Classical inorganic analysis



Salts



Caustic alkalis and bases



Acids



Metals and metal oxides

CERTIPUR® STANDARD SOLUTIONS

Parameters A-Z

Certipur® standard solutions, concentration 1,000 mg/L

Certipur® standard solutions are traceable to standard reference materials from NIST, and accredited according to ISO/IEC 17025 guidelines. They can be easily diluted to different concentrations to suit your needs.

Parameter	Volume	VWR Cat. No.
A Ammonium	500 mL	EM1.19812.0500
Arsenic	100 mL	EM1.19773.0100
B Boron	100 mL	EM1.19500.0100
C Cadmium	100 mL	EM1.19777.0100
Calcium	100 mL	EM1.19778.0100
Chloride	500 mL	EM1.19897.0500
Chromium	100 mL	EM1.19779.0100
Copper	100 mL	EM1.19786.0100
Cyanide	500 mL	EM1.19533.0500
F Fluoride	500 mL	EM1.19814.0500
I Iron	100 mL	EM1.19781.0100
M Magnesium	100 mL	EM1.19788.0100
Manganese	100 mL	EM1.19789.0100
Molybdenum	100 mL	EM1.70227.0100

Parameter	Volume	VWR Cat. No.
N Nickel*	1,000 mL	EM1.09989.0001
Nitrate	500 mL	EM1.19811.0500
Nitrite	500 mL	EM1.19899.0500
P Phosphate	500 mL	EM1.19898.0500
Potassium	100 mL	EM1.70230.0100
S Silicon	100 mL	EM1.70236.0100
Silver	100 mL	EM1.19797.0100
Sulfate	500 mL	EM1.19813.0500
T TOC	100 mL	EM1.09017.0100
V Vanadium	100 mL	EM1.70245.0100
Z Zinc	100 mL	EM1.19806.0100

* Titrisol®

KARL FISCHER REAGENTS



It's important to measure water content in products because it can affect their quality, texture, shelf life, chemical stability and reactivity.

We offer all products required for Karl Fischer titration:

- **Volumetric reagents**
- **One-component reagents**
- **Two-component reagents:** special reagents for determining water in aldehydes, ketones and other substances that are difficult to solubilize
- **Coulometric reagents:** special solvents for oils and fats
- **Water standards** for titer determination and instrument monitoring

Volumetric Titration Reagents

VWR Cat. No.	Description	Pack Size	38mm Bottle Neck
EM1.88001.1038	COMBITITRANT 1	1 L	38/430 Coated
89423-864	COMBITITRANT 2	1 L	38/430 Coated
89423-856	COMBITITRANT 2	2.5 L	38/430 Coated
89423-872	COMBITITRANT 5	1 L	38/430 Glass
89423-868	COMBITITRANT 5	2.5 L	38/430 Coated
EM1.88006.1000	COMBITITRANT 5 KETONE	1 L	38/430 Coated
89423-874	COMBIMETHANOL	1 L	38/430 Glass
89423-876	COMBIMETHANOL	2.5 L	38/430 Glass
89423-860	TITRANT 5	1 L	38/430 Coated
89423-858	TITRANT 5	2.5 L	38/430 Coated
EM-AX1698A-3	COMPOSITE 5	2 L	38/430 Coated
EM-AX1698A-5	COMPOSITE 5	4 L	38/430 Coated
102465-504	COMPOSITE 5	1 L	38/430 Coated
EM-AX1698B-3	COMPOSITE 2	2 L	38/430 Coated
EM-AX1698B-5	COMPOSITE 2	4 L	38/430 Coated
EM-AX1698B-6	COMPOSITE 2	1 L	38/430 Coated
EM-AX1698D-5	COMPOSITE 5K KETONE	4 L	38/430 Coated
EM-AX1698D-6	COMPOSITE 5K KETONE	1 L	38/430 Coated
EM-AX1698E-6	COMPOSITE 2K KETONE	1 L	38/430 Coated
EM-AX1699B-3	SOLVENT S	2 L	38/430 Coated
EM-AX1699B-5	SOLVENT S	4 L	38/430 Coated
EM-AX1699B-6	SOLVENT S	1 L	38/430 Coated

VWR Cat. No.	Description	Pack Size	GL-45 Bottle Neck
EM1.88001.1045	COMBITITRANT 1	1 L	GL45 Coated
EM1.88002.1045	COMBITITRANT 2	1 L	GL45 Coated
EM1.88002.2545	COMBITITRANT 2	2.5 L	GL45 Coated
EM1.88005.1045	COMBITITRANT 5	1 L	GL45 Coated
EM1.88005.2545	COMBITITRANT 5	2.5 L	GL45 Coated
EM1.88006.1045	COMBITITRANT 5 KETONE	1 L	GL45 Coated
EM1.88009.1045	COMBIMETHANOL	1 L	GL45 Glass
EM1.88010.1045	TITRANT 5	1 L	GL45 Glass
EM1.88011.1045	TITRANT 2 TITRANT	1 L	GL45 Coated
EM1.88015.1045	SOLVENT FOR VOLUMETRIC	1 L	GL45 Glass
EM1.88020.1045	COMBISOLVENT OIL SOLVENT	1 L	GL45 Glass

Coulometric Titration Reagents

VWR Cat. No.	Description	Pack Size	38mm Bottle Neck
EM-AX1697CN-1	COULOMAT C SAFER FORMULATION	25 mL	38/430 Glass
EM-AX1697CN-30	COULOMAT C SAFER FORMULATION	2 L	38/430 Glass
EM-AX1697AN-1	COULOMAT A SAFER FORMULATION	500 mL	38/430 Coated
EM-AX1697AN-4	COULOMAT A SAFER FORMULATION	1 L	38/430 Coated
EM-AX1697AN-30	COULOMAT A SAFER FORMULATION	4 L	38/430 Coated
EM-AX1697A-1	COULOMAT A	500 mL	38/430 Coated
EM-AX1697A-30	COULOMAT A	4 L	38/430 Coated
EM-AX1697C-1	COULOMAT C	25 mL	38/430 Glass
EM-AX1697C-30	COULOMAT C	2 L	38/430 Coated
EM-AX1697E-1	COULOMAT AK ALDEHYDES & KETONE	1 L	38/430 Coated
EM-AX1697E-30	COULOMAT AK ALDEHYDES & KETONE	4 L	38/430 Coated
EM-AX1697F-1	COULOMAT CK KETONE	25 mL	38/430 Glass
EM-AX1699EN-5	SOLVENT KN	4 L	38/430 Glass
EM-AX1699EN-6	SOLVENT KN	1 L	38/430 Glass
EM-AX1699M-6	METHANOL ANHYDROUS	1 L	38/430 Glass
VWR Cat. No.	Description	Pack Size	GL-45 Bottle Neck
EM1.09257.0500	COMBICOULOMAT SINGLE SOL-FRITLESS	500 mL	GL45 Glass
EM1.09255.0500	COMBICOULOMAT SINGLE SOL-FRITTED	500 mL	GL45 Glass

Water Standards for Instrument Calibration

VWR Cat. No.	Description	Pack Size	
EM1.88050.0010	WATER STANDARD 0.01%	10 x 8 mL	Ampoule
EM1.88051.0010	WATER STANDARD 0.1%	10 x 8 mL	Ampoule
EM1.88052.0010	WATER STANDARD 1%	10 x 8 mL	Ampoule
EM1.88054.0005	WATER STANDARD OVEN	5 g	Solid
EM1.88055.0010	WATER STANDARD FOR OIL SAMPLES	10 x 8 mL	Ampoule



TURBIQUANT® 3000 TURBIDIMETERS GET CLARITY

Clear results with Turbiquant®

Turbiquant® 3000 turbidimeters are ideal for challenging measurements of highly turbid or colored samples. The other Turbiquant® series offer different benefits such as mobility, robustness and compliance with European and/or US standards. Whichever model you choose, you'll always enjoy clear results.



Turbiquant® 3000 IR

Precision instrument for demanding turbidimetric applications with very high turbidity and/or colored solutions

VWR Cat. No.	EM1.18332.0001
Measuring Principle	Nephelometric (Non-Ratio / Ratio Selectable) Conform with EN ISO 7027
Light Source	IR LED
Indication of Units	NTU, FNU, FAU, EBC*
Measuring Range	0.02 – 10,000 NTU, 0.02 – 10,000 FNU, 0.02 – 10,000 FAU, 0.005 – 2,450 EBC
Resolution	Selectable 0.1 – 0.0001 NTU Max. 0.0001 within the range 0 < x < 10 NTU Max. 0.001 within the Range 10 < x < 100 NTU Max. 0.01 within the Range 100 < x < 1,000 NTU Max. 0.1 within the Range 1,000 < x < 10,000 NTU
Accuracy	± 2% of Reading or ± 0.01 NTU for Range 0.00 – 1,000 NTU ± 5% of Reading for Range 1,000 – 4,000 NTU ± 10% of Reading for Range 4,000 – 10,000 NTU
Reproducibility	< ± 1% of Reading or ± 0.01 NTU
Calibration	Automatic 1 to 4 Points (to 1,750 NTU) 10,000 NTU Selectable
Response time	< 6 Seconds
Cuvettes	28 x 70 mm
Sample volume	25 mL
Serial Input/Output	RS 232, Bi-Directional
Power Requirements	Universal Power Supply / Plug
Test Certificates	CE, UL, CSA, TÜV-GS
Warranty	2 Years

* NTU = Nephelometric Turbidity Units, FNU = Formazine Nephelometric Units, FAU = Formazine Attenuation Units, EBC = European Brewery Commission

REFLECTOQUANT® SYSTEMS TAKE YOUR TEST FURTHER

Mobile accuracy with test strips

The Reflectoquant® system gives you all the tools you need for high quality, low cost analysis. Compact and easy-to-use, the system allows you to monitor raw materials and obtain precise quantitative results.



					VWR Cat. No.
RQflex® 10 reflectometer					EM1.16970.0001
Test Kits					
Parameter	Graduation	No. of Tests	Method	Type	VWR Cat. No.
Ascorbic Acid Test	25 – 450 mg/L Ascorbic Acid	50	Phosphormolybd. Blue		EM1.16981.0001
Ascorbic Acid Test RQeasy®	25 – 450 mg/L Ascorbic Acid	50	Phosphormolybd. Blue		EM1.17963.0001
Calcium Test	2.5 – 45.0 mg/L Ca	50	Glyoxal-bis-(2-hydroxyanil)	Reagent, Incl.	EM1.16993.0001
Calcium Test	5 – 125 mg/L Ca	50	Phthalein Complexone		EM1.16125.0001
Glucose Test	1 – 100 mg/L Glucose	50	Enzymatic Reaction		EM1.16720.0001
Lactic Acid Test	3.0 – 60.0 mg/L Lactic Acid	50	Enzymatic Reaction		EM1.16127.0001
Potassium Test	0.25 – 1.20 g/L K	50	Dipicrylamine	Reagent, Incl.	EM1.16992.0001
Total Sugar Test (glucose and fructose)	65 – 650 mg/L Total Sugar	50	Enzymatic Reaction	Reagent, Incl.	EM1.16136.0001

M-COLORTEST™ SYSTEM AIM FOR BRILLIANCE

The MColorTest™ system is designed for highly sensitive, fast analysis of any water sample. It includes a color-card comparator, which allows you to compare the reaction color of the sample with a high-quality color scale for accurate evaluation.

Parameter	Graduation	No. of Tests	Method	Type	VWR Cat. No.
Aluminium Test	0.07–0.12–0.20–0.35–0.50–0.65–0.80 mg/L Al	185	Chromazurol S	Color-Card Comparator	EM1.14413.0001
Aluminium Test	0.10–0.20–0.35–0.50–0.75–1–2–3–6 mg/L Al	150	Chromazurol S	Disk Comparator	EM1.18386.0001
Color Test	5–10–20–30–40–50–70–100–150 CU (Hazen)	No Limit	Hazen	Color-Card Comparator	EM1.14421.0001
Copper Test	0.05–0.08–0.12–0.16–0.2–0.25–0.3–0.4–0.5 mg/L Cu	125	Cuprizone	Color-Card Comparator	EM1.14414.0001
Nitrate Test	5–10–20–30–40–50–60–70–90 mg/L NO3	90	Nitrospectral / Sulfuric Acid	Disk Comparator	EM1.18387.0001
Oxygen Test	0.1 mg/L O2	100 at 8.5 mg/L O2	Modified Winkler Method	Titration with Pipette	EM1.11107.0001
pH Universal Indicator, Liquid	pH 4.0–4.5–5.0–5.5–6.0–6.5–7.0–7.5–8.0–8.5–9.0–9.5–10.0	100 mL	Mixed Indicator	Color Card	EM1.09175.0100
pH Universal Indicator, Liquid	pH 4.0–4.5–5.0–5.5–6.0–6.5–7.0–7.5–8.0–8.5–9.0–9.5–10.0	1 L	Mixed Indicator	Color Card	EM1.09175.1000
pH Test	pH 4.5–5.0–5.5–6.0–6.5–7.0–7.5–8.0–8.5–9.0	400	Mixed Indicator	Sliding Comparator	EM1.08027.0001
Sulfite Test	0.5 mg/L Na2SO3 (0.32 mg/L SO3)	200 at 40 mg/L Na2SO3	Iodate / Starch	Titration with Pipette	EM1.11148.0001

MQUANT™ TEST STRIPS SCREEN ON THE GO

Highly reliable and portable, MQuant™ test strips are designed for semi-quantitative determination of ions and compounds. The test strips save you considerable time and costs during analyses, quality checks and in-process controls. Thanks to the PET film backing material and the low reagent content, the test strips are also easy to dispose of.

It's that simple!

01 Sample preparation

The MQuant™ Test contains all necessary reagents, including those required for sample pre-treatment.

02 Testing



Remove one MQuant™ test strip from the protective tube.

Dip strip into the test solution to wet reaction zones. Remove excess liquid by shaking test strip or drawing it across the edge of the vessel.

After the specified reaction time (maximum one minute), compare the color of the reaction zone with the color scale printed on the tube label to determine the concentration.

03 Disposal

MQuant™ test strips can be safely and easily disposed of with regular waste.

Shelf-life and storage

When stored in a cool (refrigeration is necessary in some cases) and dry area, the test strips can be used up to three years (details printed in the pack). The tube must be closed immediately after removal of each strip to ensure the remaining test strips are protected.

Quality assurance

We check and calibrate all MQuant™ tests and comparison colors using certified standard solutions. These solutions can be traced directly to primary reference materials from NIST and PTB.



Parameter	Graduation	No. of Tests	VWR Cat. No.	Method	Type
Aluminium Test	10–25–50–100–250 mg/L Al	100	EM1.10015.0001	Aurintricarboxylic Acid	Reagent, Incl.
Ascorbic Acid Test	50–100–200–300–500–700–1,000–2,000 mg/L Ascorbic Acid	100	EM1.10023.0001	Phosphomolybdenum Blue	
Calcium Test	10–25–50–100 mg/L Ca	60	EM1.10083.0001	Glyoxal-bis-hydroxanil	Reagent, Incl.
Glucose Test	10–25–50–100–250–500 mg/L Glucose	50	EM1.17866.0001	Enzymatic Reaction	

WHAT'S THE GLUCOSE CONTENT OF YOUR BEER?

Semi-quantitative measurement of glucose

The application

- Glucose is an important parameter in many foods and beverages, and is regularly tested in raw materials and final products.
- Traditional glucose analysis involves time-consuming enzymatic determination in laboratories.

Our solution: MQuant™ Glucose test strips

MQuant™ Glucose test strips allow fast, cost-effective analysis anywhere. They deliver reliable semi-quantitative results, and are ideal for quick on-the-spot screening of samples when there's no time for lab analysis.

Benefits

- Pocket-sized tests for on-site or laboratory use
- Easy disposal
- Simple analysis with illustrated instructions on label
- Fast, accurate results in minutes
- Cost-effective solution



HAVING TROUBLE MEASURING THE PH OF TURBID SAMPLES?

Quick and clear pH measurements of turbid solutions

The application

- Analyzing turbid or colored liquids with conventional pH-indicator strips can be extremely difficult.
- Suspended particulate matter which accumulates on the reaction zone can obscure the color and make the pH impossible to read.
- Using pH electrodes leads to extensive cleaning and maintenance.

Our solution: MColorpHast™ non-bleeding pH-indicator strips

Our transparent pH-indicator strips for turbid solutions eliminate the need for sample preparation steps, such as filtration or clarification. The pH reaction zone is backed by a transparent carrier film, so you can easily read the pH on the reverse side of it.

Benefits

- Non-bleeding strips prevent contamination of the medium
- Quick and easy method without sample preparation
- Brilliant color scales ensure reliable results
- SafetyEdge box for maximum security and convenience

Shelf-life and storage

- Store at 10 – 25 °C to maintain top condition for 3 – 5 years
- Protect from light and moisture
- Close box immediately after removing each strip or paper



pH-Indicator Papers				
Product	pH Measuring Range	Graduation	Roll Length	VWR Cat. No.
pH-Box	0.5 – 13.0	0.5-1.0-1.5-2.0-2.5-3.0-3.5-4.0-4.5-5.0-5.5-6.0-6.5-7.0-7.5-8.0-8.5-9.0-9.5-10.0-10.5-11.0-11.5-12.0-12.5-13.0	3 x 4.8 m	EM1.09565.0001
pH-Indicator Paper Universal Indicator	1 – 14	1.0-2.0-3.0-4.0-5.0-6.0-7.0-8.0-9.0-10.0-12.0-14.0	3 x 4.8 m	EM1.10962.0003
pH-indicator Paper Universal Indicator	1 – 10	1.0-2.0-3.0-4.0-5.0-6.0-7.0-8.0-9.0-10.0	3 x 4.8 m	EM1.09526.0003
pH-Indicator Paper Acilit®	0.5 – 5.0	0.5-1.0-1.5-2.0-2.5-3.0-3.5-4.0-4.5-5.0	3 x 4.8 m	EM1.09560.0003
pH-Indicator Paper Neutralit®	5.5 – 9.0	5.5-6.0-6.5-7.0-7.5-8.0-8.5-9.0	3 x 4.8 m	EM1.09564.0003
pH-Indicator Paper Alkalit®	9.5 – 13.0	9.5-10.0-10.5-11.0-11.5-12.0-12.5-13.0	3 x 4.8 m	EM1.09562.0003

pH-Indicator Strips (Non-Bleeding)				
Product	pH Measuring Range	Graduation	No. of Strips	VWR Cat. No.
pH-Indicator Strips Universal Indicator	0 – 14	0-1-2-3-4-5-6-7-8-9-10-11-12-13-14	100	EM1.09535.0001
pH-Indicator strips	0 – 6.0	0-0.5-1.0-1.5-2.0-2.5-3.0-3.5-4.0-4.5-5.0-5.5-6.0	100	EM1.09531.0001
pH-Indicator strips	5.0 – 10.0	5.0-5.5-6.0-6.5-7.0-7.5-8.0-8.5-9.0-9.5-10.0	100	EM1.09533.0001
pH-Indicator strips	7.5 – 14.0	7.5-8.0-8.5-9.0-9.5-10.0-10.5-11.0-11.5-12.0-12.5-13.0-13.5-14.0	100	EM1.09532.0001
pH-Indicator strips	2.0 – 9.0	2.0-2.5-3.0-3.5-4.0-4.5-5.0-5.5-6.0-6.5-7.0-7.5-8.0-8.5-9.0	100	EM1.09584.0001
pH-Indicator Strips Special Indicator for pH-Measurements in Turbid Solutions (Suspensions)	2.0 – 9.0	2.0-3.0-4.0-5.0-6.0-7.0-8.0-9.0	100	EM1.09502.0001

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