

Simply rapid MQuant™ and MColorpHast™ the mobile analysis system



Test strips from EMD Millipore

Easy – rapid – safe

Of all mobile analysis systems, test strips provide the easiest handling. Such simplicity, however, can only come from a real high-tech product. Test strips are a laboratory on a few square millimeters. Mobility is an essential feature of test strips. They fit into any pocket and can be taken anywhere. As a screening method, they provide the user with a rapid overview of the problem situation and, by helping the user make the correct preliminary choice, can save considerable time and analysis costs. The environmental aspect is also considered: a biologically degradable polyester foil and the low reagent content in the reaction zones assist a problem-free waste disposal.

EMD Millipore offers you different kinds of test strips. To measure the pH on-site quickly without a lot of preparation and without using instruments, simply use EMD Millipore's MColorpHast™ pH test strips and papers.

Furthermore, EMD Millipore offers MQuant™ test strips for the semiquantitative detection of ions and of inorganic and organic substances. They can be used to measure concentrations from as low as 1 or 10 mg/l as the case may be, right up to the g/l range. MQuant™ test strips are high-tech products, which can easily be used anywhere. Quality checks and in-process controls can be performed much more quickly.

Test strips from EMD Millipore – NEW trademarks!

MColorpHast™
pH test strips

MQuant™
Test strips

MColorpHast™ pH test strips and papers

pH determination made easy

To measure the pH swiftly and without using instruments, simply use EMD Millipore's all-purpose pH indicator papers and strips.

The pH tests are suited for all media in environmental analysis and in industrial in-process controls.



The broad pH test range offers you an optimal solution for each application area.

MColorpHast™

pH test strips and papers

The advantages of EMD Millipore pH tests

- Rapid on-the-spot pH determination
- More precise evaluation thanks to differentiated color graduations
- Expressive results for environmental analysis and in-process controls
- Calibration and checking of the products by certified buffer solutions

MColorpHast™ pH indicator strips – non-bleeding

The universal option: Our pH indicator strips contain special indicator dyes that are covalently bound to the reagent papers. This special method of manufacture gives the pH indicator strips decisive advantages over the indicator papers: since the indicator does not bleed, the strips can be left in place in the measurement medium for an indefinite time without contaminating the medium.

pH indicator papers

The traditional option: Our pH indicator papers consist of high-quality filter papers that are impregnated with indicator or mixed-indicator solutions, then dried and cut to size. We generally supply them in the roll format. This has the advantage that the tests can be better protected against external effects, such as e.g. moisture, light, and ambient gases, and can thus be stored for a longer time.



Shelf-life and storage

Our indicator papers and strips can be used for 3 to 5 years when stored at temperatures of 10 to 25 °C, protected from light in a dry laboratory atmosphere. To ensure optimal protection of the tests, the package should be closed immediately after removal of each strip or paper.

Package sizes

We standardly pack our indicator papers in lengths of 4.8 meters in a roll dispenser. Our indicator test strips are packed in boxes containing 100 strips each. On request, from a defined order size upwards, the customer can also receive singly sealed test strips and indicator papers in other formats.

Quality assurance

EMD Millipore checks and calibrates its tests using certified buffer solutions. These buffer solutions can be traced back directly to primary reference materials originating from NIST and PTB. This enables us to maintain a consistently high quality of our pH tests.

MColorpHast™

pH test strips and papers

pH indicator papers

Product	pH-measuring range	Graduation	Roll length/ number of strips	Ord. No.
Roll format				
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	M1095650001
pH-indicator paper Replacement rolls*	0.5 – 5.0	0.5-1.0-1.5-2.0-2.5-3.0-3.5-4.0-4.5-5.0	6 x 4.8 m	M1095680001
pH-indicator paper Replacement rolls*	5.5 – 9.0	5.5-6.0-6.5-7.0-7.5-8.0-8.5-9.0	6 x 4.8 m	M1095690001
pH-indicator paper Replacement rolls*	9.5 – 13.0	9.5-10.0-10.5-11.0-11.5-12.0-12.5-13.0	6 x 4.8 m	M1095700001
pH-indicator paper Universal indicator	1 – 14	1.0-2.0-3.0-4.0-5.0-6.0-7.0-8.0-9.0-10.0-11.0-12.0-13.0-14.0	3 x 4.8 m	M1109620003
pH-indicator paper Replacement rolls*			6 x 4.8 m	M1102320001
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	M1095260003
pH-indicator paper Replacement rolls*			6 x 4.8 m	M1095270001
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	M1095600003
pH-indicator paper Replacement rolls*			6 x 4.8 m	M1095680001
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	M1095640003
pH-indicator paper Replacement rolls*			6 x 4.8 m	M1095690001
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	M1095620003
pH-indicator paper Replacement rolls*			6 x 4.8 m	M1095700001
pH-indicator paper Special indicator	3.8 – 5.4	< 3.8-3.8-4.1-4.4-4.6-4.8-5.1-5.4	3 x 4.8 m	M1095550003
pH-indicator paper Special indicator	5.4 – 7.0	< 5.4-5.4-5.8-6.2-6.4-6.7-7.0->7.0	3 x 4.8 m	M1095560003
pH-indicator paper Special indicator	6.4 – 8.0	6.4-6.7-7.0-7.2-7.5-7.7-8.0->8.0	3 x 4.8 m	M1095570003
pH-indicator paper Special indicator	8.2 – 10.0	< 8.2-8.2-8.5-8.8-9.0-9.3-9.6-10.0	3 x 4.8 m	M1095580003
Litmus paper, blue Reag. Ph Eur	pH < 7 red / > 7 blue	–	3 x 4.8 m	M1094860003
Litmus paper, neutral	pH < 7 red / > 7 blue	–	3 x 4.8 m	M1095180003
Litmus paper, red Reag. Ph Eur	pH < 7 red / > 7 blue	–	3 x 4.8 m	M1094890003
Congo red paper Reag. Ph Eur	pH < 3 blue-violet / > 5 red-orange	–	3 x 4.8 m	M1095140003
Phenolphthalein paper	pH < 8.5 colorless / > 8.5 red	–	3 x 4.8 m	M1095210003
Booklet format				
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 100	M1095250003

On request we are ready to supply pH-indicator paper as special customer orders in other presentations or dimensions.

* Replacement roll without color scale

pH indicator strips (non-bleeding)

Product	pH-measuring range	Graduation	Number of test strips	Ord. No.	NEW Ord. No.
pH-indicator strips Universal indicator	0 – 14	0-1.0-2.0-3.0-4.0-5.0-6.0-7.0-8.0-9.0-10.0-11.0-12.0-13.0-14.0	100		M1095350001
			6 x 100	9590/3	M1095350007
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		M1095310001
			6 x 100	9586/3	M1095310007
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		M1095330001
			6 x 100	9588/3	M1095330007
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		M1095320001
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		M1095840001
pH-indicator strips Special indicator	0 – 2.5	0-0.5-1.0-1.3-1.6-1.9-2.2-2.5	100		M1095400001
pH-indicator strips Special indicator	2.5 – 4.5	2.5-3.0-3.3-3.6-3.9-4.2-4.5	100		M1095410001
pH-indicator strips Special indicator	4.0 – 7.0	4.0-4.4-4.7-5.0-5.3-5.5-5.8-6.1-6.5-7.0	100		M1095420001
			6 x 100	9582-3	M1095420007
pH-indicator strips Special indicator	6.5 – 10.0	6.5-6.8-7.1-7.4-7.7-7.9-8.1-8.3-8.5-8.7-9.0-9.5-10.0	100		M1095430001
			6 x 100	9583-3	M1095430007
pH-indicator strips Special indicator	11.0 – 13.0	11.0-11.5-11.8-12.1-12.3-12.5-12.8-13.0	100		M1095450001
MColorpHast™ Store	0 – 14 0 – 6.0 7.5 – 14 5.0 – 10.0 0 – 2.5 2.5 – 4.5 4.0 – 7.0 6.5 – 10.0 11.0 – 13.0		13 x 100	700181-2	M1095040007

For professional use

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		M1095020001
pH-indicator strips Special indicator for pH-measurements in meat	5.2 – 7.2	5.2-5.6-6.0-6.4-6.8-7.2	100		M1096320001
pH-indicator strips, singly sealed	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	1000		M1094500010
pH-indicator strips, singly sealed	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	25000		M1094500013

Individually sealed pH-indicator strips are available on request, also for other pH-ranges.



pH indicator strips Singly sealed pH indicator strips can be included or stuck in books, magazines, or brochures. These pH indicator strips are also used for product promotion and product differentiation purposes by adding them to a specific product.

MQuant™

Test strips from EMD Millipore

Universal, fast and simple

Test strips actually constitute a genuine high-tech product: each one is a mobile lab taking up just a few square millimeters and easily fits in your pocket to be taken wherever you go. MQuant™ Test strips are ideally suited for the semiquantitative determination of ions and compounds. They can be used in concentration ranges from 1 resp. 10 mg/l right up to the g/l range.

As a screening tool they enable the user to run a swift check on the contents of a sample and help save many time-consuming and cost-intensive analytical procedures. Quality- and process control operations are carried out more rapidly. Thanks to the PET film and the low reagent content, the test strips are also easy to dispose of.



The advantages of the MQuant™ test strips

- Small and easy to handle for on-the-spot use
- Results provided fast and easily
- Broad range with over 50 tests
- Flexible and universal application
- Ideal for screening – time and cost-saving

MQuant™ – take your pick!



MQuant™ test strips yield a rapid measurement result in the semiquantitative range for over 30 parameters.



In some tests the sample must be pretreated. Again; no problem – all the necessary reagents are included in the pack.




Some test strips are also available individually sealed. This keeps them protected against external influences, and they can be easily inserted or stuck in books, magazines, and brochures.



From a given order volume up, MQuant™ test strips can also be supplied in the customer's own package design.

MQuant™

Test strips from EMD Millipore



- 1. MQuant™ test strips couldn't be easier to handle.*
- 2. The reaction zones are wetted with the solution to be tested simply by dipping them briefly into the liquid sample. Any excess liquid is then shaken off or removed by drawing the test strip across the edge of the vessel.*
- 3. After the specified reaction time of at most one minute has expired, the color of the reaction zone is compared with the color scale printed on the tube label and the corresponding concentration is read.*

Shelf-life and storage


When stored cool (refrigeration is necessary in some cases) and dry, the test strips can be used at least up to the expiration date printed on the pack. The tube must be reclosed immediately after the removal of each strip to ensure the remaining test strips are protected.

Package sizes

Our standard package consists of 100 test strips packed in an aluminium tube. For certain parameters we also offer packs containing 25 test strips. In cases in which sample preparation is necessary, the additionally required reagents are also included in the pack.

Quality assurance

EMD Millipore checks and calibrates its tests and the exact comparison colors using certified standard solutions. These solutions can be traced back directly to primary reference materials originating from NIST. This enables us to achieve a consistently high quality of our MQuant™ test strips.

 **MQuant™ Blank Test Strips (Ord. No. 1.11860.0001)** *The blank test strips incorporate a paper zone not impregnated with reagent. They are used to perform tests to see whether sample solutions turn the blank zone a different color. A difference in color can indicate that the intrinsic color of the sample may affect results obtained with other MQuant™ test strips.*

Test strips from EMD Millipore available with your own brand name

Are you interested in test strips customized to your requirements or with a private label?

To support and enhance your product promotion, the single sealed test strips or the test strips in a tube with your own label are the ideal solution.

EMD Millipore provides you with three different options:

Single sealed test strips

Individually sealed test strips can be enclosed loosely or with adhesive in books, magazines and brochures. These strips can also be used, for product promotion and differentiation purposes and enclosed with a specific product.

Your benefits:

- Unique and highly innovative technology products customized to your requirements
- Support for your product promotion

Tubes with list items or tailor-made test strips

Design your own tailor-made label and increase the awareness for your business. We offer you close cooperation from the design of the color card to the final product. The test strips are also available for other measuring ranges customized to your needs.

Customized innovative products

You need an unlisted test strip for your individual requirements? EMD Millipore's customized innovative products are the ideal solution. We verify the feasibility and cooperate with you on developing unique, innovative products that are highly profitable.

Design your own individual innovative products customized to your requirements in cooperation with EMD Millipore. For more details please see www.emdmillipore.com.

Index A-P

MQuant™ Test strips

	Parameter	Graduation	No. of tests	Ord. No.	NEW Ord. No.	Method	Type	
A	Aluminium Test	10-25-50-100-250 mg/l Al	100		M1100150001	Aurin tricarboxylic acid	R	
	Ammonium Test	10-30-60-100-200-400 mg/l NH ₄	100	10024-1	M1100240001	NeBler	R	
	Arsenic Test	0.005-0.01-0.025-0.05-0.1-0.25-0.5 mg/l As	100		M1179270001	modified Gutzeit test	R	
	Arsenic Test	0.02-0.05-0.1-0.2-0.5 mg/l As 0.1-0.5-1.0-1.7-3 mg/l As	100		M1179170001	modified Gutzeit test	R	
	Ascorbic Acid Test	50-100-200-300-500-700- 1000-2000 mg/l ascorbic acid	100	10023-1	M1100230001	Phosphormolybdenum blue		
B	Blank strip		100		M1118600001			
C	Calcium Test	10-25-50-100 mg/l Ca	60	10083-1	M1100830001	Glyoxal bishydroxanil	R	
	Carbonate Hardness Test	5-10-15-20-30 °e	100	10648-1	M1106480001	Mixed indicator		
	Chloride Test	500-1000-1500-2000-3000 mg/l Cl	100	10079-1	M1100790001	Silver chromate		
	Chlorine Test	0.5-1-2-5-10-20 mg/l Cl ₂	75	17925-1	M1179250001	Redox reaction		
	Chlorine Test	25-50-100-200-500 mg/l Cl ₂	100		M1179240001	Redox reaction		
	Chromate Test	3-10-30-100 mg/l CrO ₄	100	10012-1	M1100120001	Diphenylcarbazide	R	
	Cobalt Test	10-30-100-300-1000 mg/l Co	100	10002-1	M1100020001	Rhodanide		
	Copper Test	10-30-100-300 mg/l Cu	100	10003-1	M1100030001	2,2'-Cuproin		
	Cyanide Test	1-3-10-30 mg/l CN	100	10044-1	M1100440001	Barbituric acid derivative	R	
	F	Formaldehyde Test	10-20-40-60-100 mg/l HCHO	100	10036-1	M1100360001	Triazole	R
	G	Glucose Test	10-25-50-100-250-500 mg/l Glucose	50		M1178660001	Enzymatic reaction	
I	Iron Test	3-10-25-50-100-250-500 mg/l Fe(II)	100	10004-1	M1100040001	2,2'-Bipyridine		
L	Lead Test	20-40-100-200-500 mg/l Pb	100	10077-1	M1100770001	Rhodizonic acid	R	
M	Manganese Test	2-5-20-50-100 mg/l Mn	100		M1100800001	Oxidation/Redox indicator	R	
	Molybdenum Test	5-20-50-100-250 mg/l Mo	100	10049-1	M1100490001	Toluene-3,4-dithiol	R	
N	Nickel Test	10-25-100-250-500 mg/l Ni	100	10006-1	M1100060001	Diacetyldioxime		
	Nitrate Test	10-25-50-100-250-500 mg/l NO ₃	100	10020-1	M1100200001	modified Griess' reaction		
	Nitrate Test	10-25-50-100-250-500 mg/l NO ₃	25	10020-4	M1100200002	modified Griess' reaction		
	Nitrate Test	10-25-50-100-250-500 mg/l NO ₃	1000		M1100920021	modified Griess' reaction	IS	
	Nitrite Test	0.5-1-2-5-10 mg/l NO ₂	75		M1100570001	Griess' reaction		
	Nitrite Test	2-5-10-20-40-80 mg/l NO ₂	100	10007-1	M1100070001	Griess' reaction		
	Nitrite Test	2-5-10-20-40-80 mg/l NO ₂	25		M1100070002	Griess' reaction		
	Nitrite Test	0.1-0.3-0.6-1-2-3 g/l NO ₂	100	10022-1	M1100220001	Griess' reaction		
P	Peracetic Acid Test	5-10-20-30-50 mg/l Peracetic acid	100	10084-1	M1100840001	Redox reaction		
	Peracetic Acid Test	100-150-200-250-300- 400-500 mg/l Peracetic acid	100	10001-1	M1100010001	Redox reaction		
	Peracetic Acid Test	500-1000-1500-2000 mg/l Peracetic acid	100		M1179220001	Redox reaction		
	Peroxidase Test	yes/no result	100		M1178280001	Enzymatic reaction	R	

IS individually sealed | R incl. reagent

Index P-Z

MQuant™ Test strips

Parameter	Graduation	No. of tests	Ord. No.	NEW Ord. No.	Method	Type
P Peroxide Test	0.5-2-5-10-25 mg/l H ₂ O ₂	100	10011-1	M1100110001	Enzymatic reaction	
Peroxide Test	0.5-2-5-10-25 mg/l H ₂ O ₂	25		M1100110002	Enzymatic reaction	
Peroxide Test	1-3-10-30-100 mg/l H ₂ O ₂	100	10081-1	M1100810001	Enzymatic reaction	
Peroxide Test	100-200-400-600-800-1000 mg/l H ₂ O ₂	100	10337-1	M1103370001	Enzymatic reaction	
Phosphate Test	10-25-50-100-250-500 mg/l PO ₄	100		M1104280001	Phosphormolybdenum blue	R
Potassium Test	250-450-700-1000-1500 mg/l K	100	117985.0001	M1179850001	Dipicrylamine	R
Q Quaternary Ammonium Compounds	10-25-50-100-250-500 mg/l Benzalkonium chloride	100		M1179200001	Indicator	
S Sulfate Test	200-400-800-1200-1600 mg/l SO ₄	100	10019-1	M1100190001	Ba-thorin complex	
Sulfite Test	10-40-80-180-400 mg/l SO ₃	100	10013-1	M1100130001	Nitroprusside/ Zn-hexacyanoferrate	
T Tin Test	10-25-50-100-200 mg/l Sn	50		M1100280001	Toluene-3,4-dithiol	R
Total Hardness Test	4-5-9-18-26 °e	100	10025-1	M1100250001	EDTA	
Total Hardness Test	4-5-9-18-26 °e	5000		M1100290001	EDTA	IS
Total Hardness Test	4-5-9-18-26 °e	1000		M1100320001	EDTA	IS
Total Hardness Test	6-13-19-25-31 °e	100	10046-1	M1100460001	EDTA	
Total Hardness Test	6-13-19-25-31 °e	25000		M1100470013	EDTA	IS
Total Hardness Test	< 1.5; 1.5-2.5; > 2.5 mmol/l CaCO ₃	100		M1179340001	EDTA	
Z Zinc Test	0-4-10-20-50 mg/l Zn	100	117953.0001	M1179530001	Dithizone	R

IS individually sealed | R incl. reagent

Reagent papers

Lead acetate paper 3 rolls each with 4.8 meters

Ord. No. M1095110003

Lead acetate paper is used for the determination of sulfide and hydrogen sulfide

Potassium iodide-starch paper, Reag. Ph Eur 3 rolls each with 4.8 meters

Ord. No. M1095120003

Potassium iodide paper is used for the determination of oxidizing agents

	Agriculture	Aquaristics	Beverages	Biotechnology, fermenter	Boiler water, cooling water	Construction-material	Disinfection control	Disposal drainage water	Drinking water	Electroplating	Environment	Food	Groundwater, surface water	Milk, dairy products	Mineral water	Seawater	Swimming pools	Wastewater
						■						■						■
						■						■						■
						■												■
						■												■
	■	■	■		■	■				■		■	■			■		■
	■		■									■	■	■				
							■											■
						■				■			■					■
			■		■			■				■						■
								■		■						■		■
		■	■		■	■			■				■		■	■	■	
		■	■		■	■			■				■		■	■	■	
		■	■		■	■			■				■		■	■	■	
		■	■		■	■			■				■		■	■	■	
		■	■		■	■			■				■		■	■	■	
							■		■	■								■

Parameter
Peroxide Test
Peroxide Test
Peroxide Test
Peroxide Test
Phosphate Test
Potassium Test
Quaternary Ammonium Compounds
Sulfate Test
Sulfite Test
Tin Test
Total Hardness Test
Total Hardness Test
Total Hardness Test
Total Hardness Test
Total Hardness Test
Total Hardness Test
Total Hardness Test
Zinc Test



We provide information and advice to our customers on application technologies and regulatory matters to the best of our knowledge and ability, but without obligation or liability. Existing laws and regulations are to be observed in all cases by our customers. This also applies in respect to any rights of third parties. Our information and advice do not relieve our customers of their own responsibility for checking the suitability of our products for the envisaged purpose.



To Receive Technical Assistance

In the U.S. and Canada, call toll-free
1(800)-645-5476

Or visit: www.emdmillipore.com/techservice

Or e-mail: tech_service@millipore.com

www.emdmillipore.com



In the United States:
For customer service, call 1-800-766-7000.
To fax an order, use 1-800-926-1166.
To order online: www.fishersci.com

In Canada:
For customer service, call 1-800-234-7437.
To fax an order, use 1-800-463-2996.
To order online: www.fishersci.ca