

OUR COMMITMENT to sustainability

A small change to your sample and in-process analysis with a big impact for the environment



Given the considerable usage of test strips in labs around the world, our aim is to encourage a responsible consumption and production for our MQuant® test strips.

Minimizing our usage of plastic and implementing more sustainable packaging are two key areas we are focusing on to reduce our footprint.

Some of the adjustments are:

Waste reduction

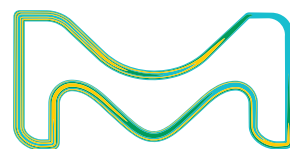
- Plastic savings and material reduction by decreasing product size and weight, saving roughly 8% of the material needed, including a reduction in the use of chemicals
- Using 60% post-industrial recycled aluminum and 40% internal aluminum scrap for packaging, aligned with our SMASH packaging program

Digital Instruction leaflet

- Provided digitally via a barcode on the packaging, leading to the My M Safety app, avoiding more than 2 metric tons of paper usage per year.



MilliporeSigma is the U.S. and Canada Life Science business of Merck KGaA, Darmstadt, Germany.



MQuant® Test Strips Parameter A-Z

	Parameter	Graduation	No. of tests	Cat. No.	Method	Type	GAP*
A	Aluminium Test	10–25 – 50–100 – 250 mg/L Al	100	EM1.10015.0001	Aurintricarboxylic acid	Reagent, incl.	
	Ammonium Test	10–30 – 60–100 – 200–400 mg/L NH ₄	100	EM1.10024.0001	Neßler	Reagent, incl.	
	Arsenic Test	0.005–0.010–0.025–0.05–0.10–0.25–0.5 mg/L As	100	78542–422	modified Gutzeit test	Reagent, incl.	
	Arsenic Test	0.02–0.05–0.1–0.2–0.5 mg/L As 0.1–0.5–1.0–1.7–3.0 mg/L As	100	EM1.17917.0001	modified Gutzeit test	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		
B	Blank strip		100	EM1.11860.0001			
C	Calcium Test	10–25 – 50–100 mg/L Ca	60	EM1.10083.0001	Glyoxal-bis-hydroxyanil	Reagent, incl.	
	Carbonate Hardness Test	5–10 – 15–20 – 30 °e	100	EM1.10648.0001	Mixed indicator		
	Chloride Test	500–1,000–1,500–2,000–≥3,000 mg/L Cl	100	EM1.10079.0001	Silver chromate		
	Chlorine Test (free chlorine)	0.5–1–2–5–10–20 mg/L Cl ₂	75	EM1.17925.0001	Redox reaction		
	Chlorine Test (free chlorine)	25–50 – 100–200 – 500 mg/L Cl ₂	100	EM1.17924.0001	Redox reaction		
	Chromate Test	3–10 – 30–100 mg/L CrO ₄	100	EM1.10012.0001	Diphenylcarbazide	Reagent, incl.	
	Cobalt Test	10–30 – 100–300 – 1,000 mg/L Co	100	EM1.10002.0001	Rhodanide		
	Copper Test	10–30 – 100–300 mg/L Cu	100	EM1.10003.0001	2,2'-Biquinoline		
	Cyanide Test	1–3–10–30 mg/L CN	100	EM1.10044.0001	König reaction	Reagent, incl.	
	Formaldehyde Test	10–20 – 40–60 – 100 mg/L HCHO	100	EM1.10036.0001	Triazole	Reagent, incl.	
F	Free Fatty Acids	0.5–1.0–2.0–3.0 mg/g KOH	100	EM1.17046.0001	pH indicator		
	Glucose Test	10–25 – 50–100 – 250–500 mg/L Glucose	50	EM1.17866.0001	Enzymatic reaction		
I	Iron Test	3–10 – 25–50 – 100–250 – 500 mg/L Fe(II)	100	EM1.10004.0001	2,2'-Bipyridine		
L	Lead Test	20–40 – 100–200 – 500 mg/L Pb	100	EM1.10077.0001	Rhodizonic acid	Reagent, incl.	
M	Manganese Test	2–5–20–50 – 100 mg/L Mn	100	EM1.10080.0001	Oxidation/Redox indicator	Reagent, incl.	
	Molybdenum Test	5–20 – 50–100 – 250 mg/L Mo	100	EM1.10049.0001	Toluene-3,4-dithiol	Reagent, incl.	in Q3 2025
N	Nickel Test	10–25 – 100–250 – 500 mg/L Ni	100	EM1.10006.0001	Dimethylglyoxime		
	Nitrate Test	10–25 – 50–100 – 250–500 mg/L NO ₃	100	EM1.10020.0001	modified Griess' reaction		
	Nitrate Test	10–25 – 50–100 – 250–500 mg/L NO ₃	25	EM1.10020.0002	modified Griess' reaction		
	Nitrite Test	0.5–1–2–5–10 mg/L NO ₂	75	EM1.10057.0001	Griess' reaction		
	Nitrite Test	2–5–10–20 – 40–80 mg/L NO ₂	100	EM1.10007.0001	Griess' reaction		
	Nitrite Test	2–5–10–20 – 40–80 mg/L NO ₂	25	EM1.10007.0002	Griess' reaction		
	Nitrite Test	0.1–0.3–0.6–1–2–3 g/L NO ₂	100	EM1.10022.0001	Griess' reaction		
	Nitrite Test	0.1–0.3–0.6–1–2–3 g/L NO ₂	100	EM1.10022.0001	Griess' reaction		
P	Peracetic Acid Test	5–10 – 20–30 – 50 mg/L Peracetic acid	100	EM1.10084.0001	Redox reaction		
	Peracetic Acid Test	20–40 – 80–120 – 160 mg/L Peracetic acid	100	78542–410	Redox reaction		
	Peracetic Acid Test	100–150 – 200–250 – 300–400 – 500 mg/L Peracetic acid	100	EM1.10001.0001	Redox reaction		
	Peracetic Acid Test	500–1,000–1,500–2,000 mg/L Peracetic acid	100	EM1.17922.0001	Redox reaction		
	Peroxidase Test	yes/no result	100	EM1.17828.0001	Enzymatic reaction		
	Peroxide Test	0.5–2–5–10 – 25 mg/L H ₂ O ₂	100	EM1.10011.0001	Enzymatic reaction		
	Peroxide Test	0.5–2–5–10 – 25 mg/L H ₂ O ₂	25	EM1.10011.0002	Enzymatic reaction		
	Peroxide Test	1–3–10–30 – 100 mg/L H ₂ O ₂	100	EM1.10081.0001	Enzymatic reaction		
	Peroxide Test	100–200 – 400–600 – 800–1,000 mg/L H ₂ O ₂	100	EM1.10337.0001	Enzymatic reaction		
	Phosphate Test	10–25 – 50–100 – 250–500 mg/L PO ₄	100	EM1.10428.0001	Molybdate ion	Reagent, incl.	
	Potassium Test	250–450 – 700–1,000–1,500 mg/L K	100	78542–292	Dipicrylamine	Reagent, incl.	
	Potassium Test	250–450 – 700–1,000–1,500 mg/L K	100	78542–292	Dipicrylamine	Reagent, incl.	

*Greener Alternative Product

MQuant® Test Strips Parameter A-Z

	Parameter	Graduation	No. of tests	Cat. No.	Method	Type	GAP*
Q	Quaternary Ammonium Compounds	10-25 - 50-100 - 250-500 mg/L Benzalkonium chloride	100	EM1.17920.0001	Indicator		
S	Sulfate Test	<200->400->800->1200->1600 mg/L SO ₄	100	EM1.10019.0001	Ba-thorin complex		
	Sulfite Test	10-40 - 80-180 - 400 mg/L SO ₃	100	EM1.10013.0001	Nitroprusside/ Zn-hexacyanoferrate		
T	Tin Test	10-25 - 50-100 - 200 mg/L Sn	50	EM1.10028.0001	Toluene-3,4-dithiol	Reagent, incl.	
	Total Hardness Test	<4->5->9->18->26 °e	100	EM1.10025.0001	EDTA		
	Total Hardness Test	>6->13->19->25->31 °e	100	EM1.10046.0001	EDTA		
Z	Zinc Test	0-4-10-20 - 50 mg/L Zn	100	89423-636	Dithizone		

*Greener Alternative Product

Please also check out our wide range of pH indicator strips. We also offer single sealed test strips for some parameters.



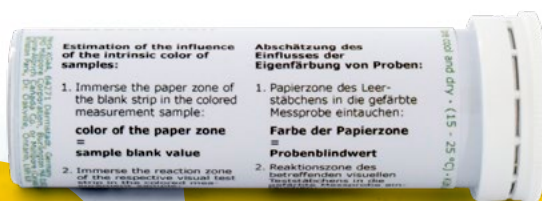
Remove one MQuant® test strip from the protective tube.



Dip strip into the test solution to wet reaction zones and remove excess liquid.



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.



Testing colored samples?

MQuant® blank strips have a reagent-free test field. This allows you to check whether the sample solution changes the test field's color significantly, potentially leading to mis-matches with the color scale and inaccurate results.

Don't guess! Measure!

MQuant® StripScan mobile app for digital readout of MQuant® test strips

Digital precision in seconds

The MQuant® StripScan app and MQuant® test strips are a perfect match for rapid, reliable in-process testing.

- Universal color reference card now provided with all compatible tests
- Fast and precise test strip readout using your smartphone or tablet

Data management on the go

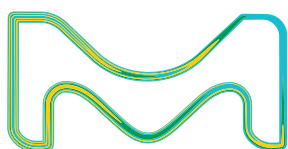
- Free, innovative MQuant® StripScan app guides you through the test process, reads results via your mobile camera, and saves your measurements
- Online portal to manage your account, visualize and analyze results, share data, or send to LIMS systems



Compatible test strips

We currently offer MQuant® test strips for 10 parameters that are compatible with the StripScan app. These tests are equipped with a universal color reference enabling digital readouts.

Cat. No.	Product name	Application
EM1.10024.0001	MQuant® Ammonium Test colorimetric, 10–400 mg/L (NH ₄), for use with MQuant® StripScan App	Ammonium test
EM1.10023.0001	MQuant® Ascorbic Acid Test colorimetric, 50–2000 mg/L (ascorbic acid), for use with MQuant® StripScan App	Ascorbic acid test
EM1.10020.0001	MQuant® Nitrate Test colorimetric, 10–500 mg/L (NO ₃), for use with MQuant® StripScan App	Nitrate test
EM1.10022.0001	MQuant® Nitrite Test colorimetric, 0.1–3 g/L (NO ₂), for use with MQuant® StripScan App	Nitrite test
EM1.10084.0001	MQuant® Peracetic Acid Test colorimetric, 5–50 mg/L (peracetic acid), for use with MQuant® StripScan App	Peracetic acid test
EM1.10011.0001	MQuant® Peroxide Test colorimetric, 0.5–25 mg/L (H ₂ O ₂), for use with MQuant® StripScan App	Peroxide test
EM1.09535.0001	MQuant® pH-indicator strips pH 0–14 Universal indicator non-bleeding, pH range 0–14, graduations and accuracy: 1 pH unit, for use with MQuant® StripScan App	pH test
EM1.10019.0001	MQuant® Sulfate Test colorimetric, 200–1600 mg/L (SO ₄), for use with MQuant® StripScan App	Sulfate test
EM1.10013.0001	MQuant® Sulfite Test colorimetric, 10–400 mg/L (SO ₃), for use with MQuant® StripScan App	Sulfite test
EM1.10046.0001	MQuant® Total Hardness Test colorimetric, water hardness 5–25 °d, for use with MQuant® StripScan App, water hardness 6–31 °e, water hardness 9–45 °F	Total hardness test



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