Supelco®
Analytical Products

MERCK

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.

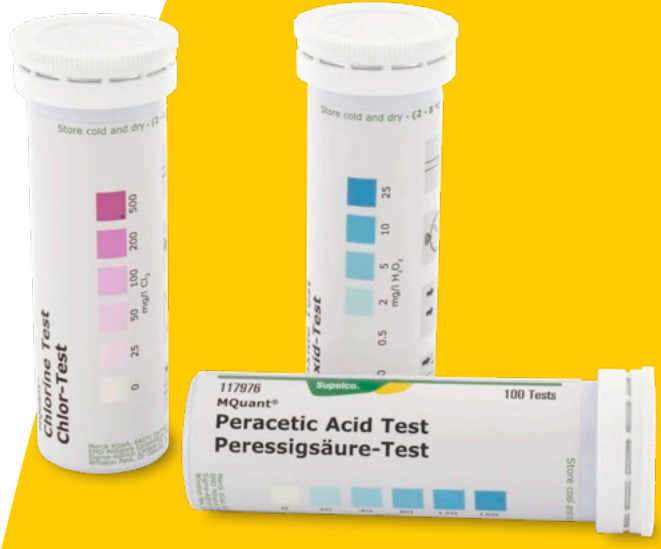
Some of the adjustments are:

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.



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	**1.10015.0001**	Aurintricarboxylic acid	Reagent, incl.	✓
	Ammonium Test	10–30–60–100–200–400 mg/L NH_4	100	**1.10024.0001**	Neßler	Reagent, incl.	✓
	Arsenic Test	0.005–0.010–0.025–0.05–0.10–0.25–0.5 mg/L As	100	**1.17927.0001**	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	**1.17917.0001**	modified Gutzeit test	Reagent, incl.	
	Ascorbic Acid Test	50–100–200–300–500–700–1,000–2,000 mg/L ascorbic acid	100	**1.10023.0001**	Phosphomolybdenum blue		✓
B	Blank strip		100	**1.11860.0001**			✓
C	Calcium Test	10–25–50–100 mg/L Ca	60	**1.10083.0001**	Glyoxal-bis-hydroxyanil	Reagent, incl.	✓
	Carbonate Hardness Test	5–10–15–20–30 °e	100	**1.10648.0001**	Mixed indicator		✓
	Chloride Test	500–1,000–1,500–2,000–≥3,000 mg/L Cl	100	**1.10079.0001**	Silver chromate		✓
	Chlorine Test (free chlorine)	0.5–1–2–5–10–20 mg/L Cl_2	75	**1.17925.0001**	Redox reaction		✓
	Chlorine Test (free chlorine)	25–50–100–200–500 mg/L Cl_2	100	**1.17924.0001**	Redox reaction		✓
	Chromate Test	3–10–30–100 mg/L CrO4	100	**1.10012.0001**	Diphenylcarbazide	Reagent, incl.	✓
	Cobalt Test	10–30–100–300–1,000 mg/L Co	100	**1.10002.0001**	Rhodanide		✓
	Copper Test	10–30–100–300 mg/L Cu	100	**1.10003.0001**	2,2′-Biquinoline		✓
	Cyanide Test	1–3–10–30 mg/L CN	100	**1.10044.0001**	König reaction	Reagent, incl.	✓
F	Formaldehyde Test	10–20–40–60–100 mg/L HCHO	100	**1.10036.0001**	Triazole	Reagent, incl.	✓
	Free Fatty Acids	0.5–1.0–2.0–3.0 mg/g KOH	100	**1.17046.0001**	pH indicator		✓
G	Glucose Test	10–25–50–100–250–500 mg/L Glucose	50	**1.17866.0001**	Enzymatic reaction		✓
I	Iron Test	3–10–25–50–100–250–500 mg/L Fe(II)	100	**1.10004.0001**	2,2′-Bipyridine		✓
L	Lead Test	20–40–100–200–500 mg/L Pb	100	**1.10077.0001**	Rhodizonic acid	Reagent, incl.	✓
M	Manganese Test	2–5–20–50–100 mg/L Mn	100	**1.10080.0001**	Oxidation/Redox indicator	Reagent, incl.	✓
	Molybdenum Test	5–20–50–100–250 mg/L Mo	100	**1.10049.0001**	Toluene-3,4-dithiol	Reagent, incl.	in Q3 2025
N	Nickel Test	10–25–100–250–500 mg/L Ni	100	**1.10006.0001**	Dimethylglyoxime		✓
	Nitrate Test	10–25–50–100–250–500 mg/L NO_3	100	**1.10020.0001**	modified Griess' reaction		✓
	Nitrate Test	10–25–50–100–250–500 mg/L NO_3	25	**1.10020.0002**	modified Griess' reaction		✓
	Nitrite Test	0.5–1–2–5–10 mg/L NO_2	75	**1.10057.0001**	Griess' reaction		✓
	Nitrite Test	2–5–10–20–40–80 mg/L NO_2	100	**1.10007.0001**	Griess' reaction		✓
	Nitrite Test	2–5–10–20–40–80 mg/L NO_2	25	**1.10007.0002**	Griess' reaction		✓
	Nitrite Test	0.1–0.3–0.6–1–2–3 g/L NO_2	100	**1.10022.0001**	Griess' reaction		✓
P	Peracetic Acid Test	5–10–20–30–50 mg/L Peracetic acid	100	**1.10084.0001**	Redox reaction		✓
	Peracetic Acid Test	20–40–80–120–160 mg/L Peracetic acid	100	**1.17976.0001**	Redox reaction		✓
	Peracetic Acid Test	100–150–200–250–300–400–500 mg/L Peracetic acid	100	**1.10001.0001**	Redox reaction		✓
	Peracetic Acid Test	500–1,000–1,500–2,000 mg/L Peracetic acid	100	**1.17922.0001**	Redox reaction		✓
	Peroxidase Test	yes/no result	100	**1.17828.0001**	Enzymatic reaction		✓
	Peroxide Test	0.5–2–5–10–25 mg/L H_2O_2	100	**1.10011.0001**	Enzymatic reaction		✓
	Peroxide Test	0.5–2–5–10–25 mg/L H_2O_2	25	**1.10011.0002**	Enzymatic reaction		✓
	Peroxide Test	1–3–10–30–100 mg/L H_2O_2	100	**1.10081.0001**	Enzymatic reaction		✓
	Peroxide Test	100–200–400–600–800–1,000 mg/L H_2O_2	100	**1.10337.0001**	Enzymatic reaction		✓
	Phosphate Test	10–25–50–100–250–500 mg/L PO_4	100	**1.10428.0001**	Molybdate ion	Reagent, incl.	✓
	Potassium Test	250–450–700–1,000–1,500 mg/L K	100	**1.17985.0001**	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	**1.17920.0001**	Indicator		
S	Sulfate Test	<200–>400–>800–>1200–>1600 mg/L SO_4	100	**1.10019.0001**	Ba-thorin complex		
	Sulfite Test	10–40–80–180–400 mg/L SO_3	100	**1.10013.0001**	Nitroprusside/ Zn-hexacyanoferrate		
T	Tin Test	10–25–50–100–200 mg/L Sn	50	**1.10028.0001**	Toluene-3,4-dithiol	Reagent, incl.	
	Total Hardness Test	<4–>5–>9–>18–>26 °e	100	**1.10025.0001**	EDTA		
	Total Hardness Test	>6–>13–>19–>25–>31 °e	100	**1.10046.0001**	EDTA		
Z	Zinc Test	0–4–10–20–50 mg/L Zn	100	**1.17953.0001**	Dithizone		

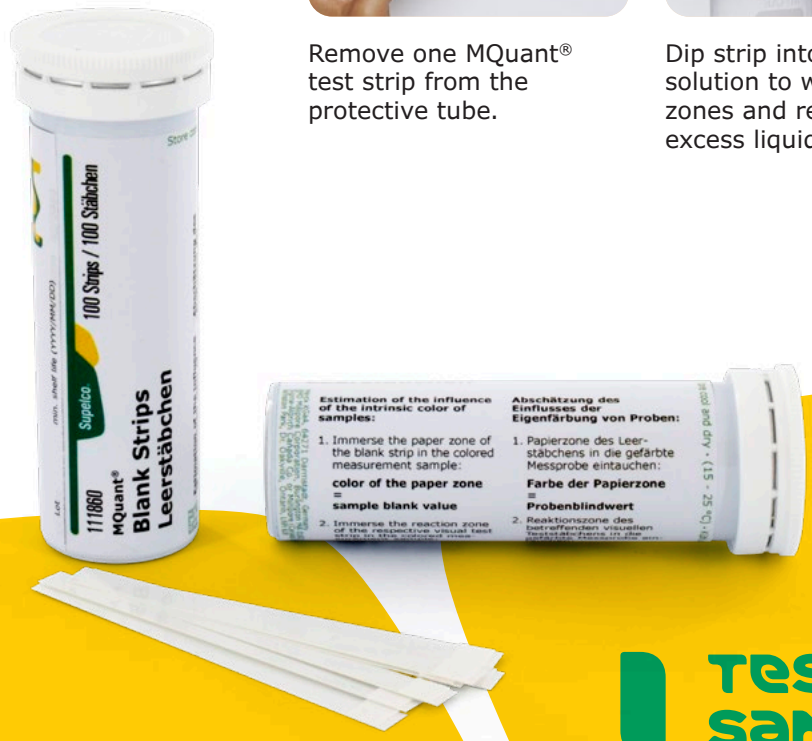
*Greener Alternative Product

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
1.10024.0001	MQuant® Ammonium Test colorimetric, 10-400 mg/L (NH_4), for use with MQuant® StripScan App	Ammonium test
1.10023.0001	MQuant® Ascorbic Acid Test colorimetric, 50-2000 mg/L (ascorbic acid), for use with MQuant® StripScan App	Ascorbic acid test
1.10020.0001	MQuant® Nitrate Test colorimetric, 10-500 mg/L (NO_3), for use with MQuant® StripScan App	Nitrate test
1.10022.0001	MQuant® Nitrite Test colorimetric, 0.1-3 g/L (NO_2), for use with MQuant® StripScan App	Nitrite test
1.10084.0001	MQuant® Peracetic Acid Test colorimetric, 5-50 mg/L (peracetic acid), for use with MQuant® StripScan App	Peracetic acid test
1.10011.0001	MQuant® Peroxide Test colorimetric, 0.5-25 mg/L (H_2O_2), for use with MQuant® StripScan App	Peroxide test
1.09535.0001	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
1.10019.0001	MQuant® Sulfate Test colorimetric, 200-1600 mg/L (SO_4), for use with MQuant® StripScan App	Sulfate test
1.10013.0001	MQuant® Sulfite Test colorimetric, 10-400 mg/L (SO_3), for use with MQuant® StripScan App	Sulfite test
1.10046.0001	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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