



Rapid Tests

Test papers and test strips

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pH-Fix

Unmatched pH test strips

For many years untrained users as well as analytical professionals appreciate the experience of easy pH testing with pH-Fix. In contrast to common indicator papers, the indicator dyes in pH-Fix test strips are chemically bound to the test pads. This patented technology prevents bleeding of the dyes and therefore a contamination of the sample, even in highly alkaline solutions. The fixation enables the strips to remain in solution over extended periods of time allowing a safe pH determination even in weakly buffered solutions.

Good to know

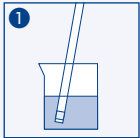
Many customers receive our pH-Fix test strips as an OEM product.



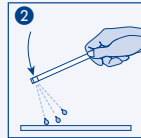
How it's done



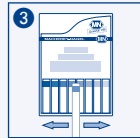
Using pH-Fix test strips



Dip in



Shake off



Read result

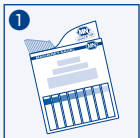
Optimized packages

In the classic packaging, the smart corner of the box safely prevents jamming of test strips. By simply tilting the box the strips fall easily into the smart corner allowing the closing with maximal comfort.

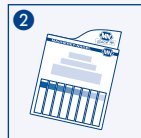
How it's done



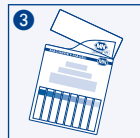
The smart corner



Remove strip



Hold box diagonally



Close easily

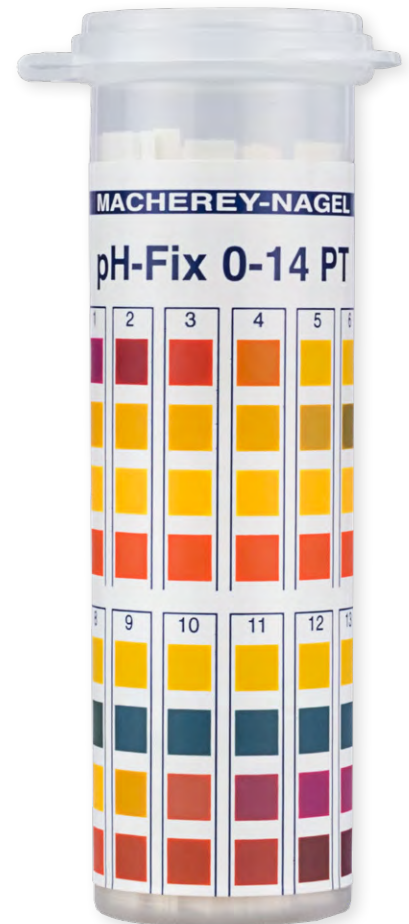
Especially users in the medical sector appreciate the robust PlopTop tube. The tube is higher than the length of the strips and can be easily opened and closed with the thumb of the holding hand. There is no risk of jamming the strip. The tube is virtually unbreakable and stands firmly on any flat surface.

CE-mark for medical applications

Some pH-Fix test strips are tested and approved for medical applications and carry a CE-mark for in-vitro-diagnostics 98/78/EG (for details see table on page 54). They meet the special demands of health care professionals and ensure safe results for medical pH testing.

Automatic evaluation with the QUANTOFIX® Relax

The strip reader QUANTOFIX® Relax (see page 154) allows the easy and reliable documentation of pH testing. The system provides objective and quantitative results. It allows printing and storing of test data including time and sample ID. Test strips covering the complete pH range can be evaluated using the QUANTOFIX® Relax (for details see table on page 54).



Rapid

- Dip & Read
- Results in seconds
- Always ready for use

Easy

- No calibration
- No maintenance
- No accessories

Reliable

- Long handle for sufficient hand-sample-distance
- Brilliant color chart for precise readings
- Automatic evaluation with QUANTOFIX® Relax for safe documentation

Good to know

Many pH-Fix test strips can be also evaluated on the strip reader QUANTOFIX® Relax (see page 154).



Ordering information

Test papers and test strips

Test	REF	Measuring range (visual)	Measuring range (instrumental) ¹⁾
■ 0-14	92110	0 · 1 · 2 · 3 · 4 · 5 · 6 · 7 · 8 · 9 · 10 · 11 · 12 · 13 · 14	1-13
■ 0.0-6.0	92115	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	0.5-6.0
■ 2.0-9.0	92118	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	2.0-9.0
■ 4.5-10.0	92120	4.5 · 5.0 · 5.5 · 6.0 · 6.5 · 7.0 · 7.5 · 8.0 · 8.5 · 9.0 · 9.5 · 10.0	4.5-10.0
■ 6.0-10.0	92122	6.0 · 6.4 · 6.7 · 7.0 · 7.3 · 7.6 · 7.9 · 8.2 · 8.4 · 8.6 · 8.8 · 9.1 · 9.5 · 10.0	6.0-10.0
■ 7.0-14.0	92125	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 · 13.5 · 14.0	7.0-13.5
■ 0.3-2.3	92180	0.3 · 0.7 · 1.0 · 1.3 · 1.6 · 1.9 · 2.3	-
■ 1.7-3.8	92190	1.7 · 2.0 · 2.3 · 2.6 · 2.9 · 3.2 · 3.5 · 3.8	-
■ 3.1-8.3	92135	3.1 · 3.5 · 3.9 · 4.3 · 4.7 · 5.1 · 5.5 · 5.9 · 6.3 · 6.7 · 7.1 · 7.5 · 7.9 · 8.3	-
■ 3.6-6.1	92130	3.6 · 4.1 · 4.4 · 4.7 · 5.0 · 5.3 · 5.6 · 6.1	3.6-6.1
■ 4.0-7.0	92137	4.0 · 4.4 · 4.7 · 5.0 · 5.3 · 5.5 · 5.8 · 6.1 · 6.5 · 7.0	-
■ 5.1-7.2	92140	5.1 · 5.4 · 5.7 · 6.0 · 6.3 · 6.6 · 6.9 · 7.2	-
■ 6.0-7.7	92150	6.0 · 6.4 · 6.7 · 7.0 · 7.3 · 7.7	6.0-7.7
■ 7.5-9.5	92160	7.5 · 7.9 · 8.2 · 8.4 · 8.6 · 8.8 · 9.1 · 9.5	-
■ 7.9-9.8	92170	7.9 · 8.3 · 8.6 · 8.9 · 9.1 · 9.4 · 9.8	-
■ 0-14 PT	92111	0 · 1 · 2 · 3 · 4 · 5 · 6 · 7 · 8 · 9 · 10 · 11 · 12 · 13 · 14	1-13
■ 3.6-6.1 PT	92131	3.6 · 4.1 · 4.4 · 4.7 · 5.0 · 5.3 · 5.6 · 6.1	3.6-6.1
■ 4.5-10.0 PT	92121	4.5 · 5.0 · 5.5 · 6.0 · 6.5 · 7.0 · 7.5 · 8.0 · 8.5 · 9.0 · 9.5 · 10.0	4.5-10.0

CE/ gastric juice: According to IVD directive 98/79/EG approved for pH determination in gastric juice, for professional use only.

CE/ vaginal secretion: According to IVD directive 98/79/EG approved for pH determination in vaginal secretion, for professional use only.

¹⁾ Together with QUANTOFIX® Relax, the test strips may not be used for any medical application.



Number of tests	Shelf life	QUANTOFIX® Relax	Classic flat box	PlopTop tube	CE / gastric juice	CE / vaginal secretion	Test
100	4 years	■	■				0-14
100	4 years	■	■				0.0-6.0
100	4 years	■	■				2.0-9.0
100	4 years	■	■				4.5-10.0
100	4 years	■	■				6.0-10.0
100	4 years	■	■				7.0-14.0
100	4 years		■				0.3-2.3
100	4 years		■				1.7-3.8
100	4 years		■				3.1-8.3
100	4 years	■	■				3.6-6.1
100	4 years		■				4.0-7.0
100	4 years		■				5.1-7.2
100	4 years	■	■				6.0-7.7
100	4 years		■				7.5-9.5
100	4 years		■				7.9-9.8
100	4 years	■		■			0-14 PT
100	4 years	■		■		■	3.6-6.1 PT
100	4 years	■		■	■		4.5-10.0 PT

QUANTOFIX® Relax

Reflectometer for evaluation of test strips





Perfect optic – Exact results

- Intuitive operation
- Highest precision
- Reproducible results independently from the user
- Printout of the results for optimal documentation



PEHANON®

pH determination in colored samples

PEHANON® test strips unify pH indicator and reference color chart on one strip. Any sample color has the same effect on both, the reference colors and the reactive pad, allowing unadulterated pH reading even in colored solutions.

Safe testing of hazardous samples

An invisible hydrophobic barrier just above the top color field prevents migration of the sample. The handle remains dry and clean and the user is safely protected from contamination due to capillary rise.

No separate color chart needed

PEHANON® test strips can be read without a separate color chart. Workers in production can use single strips instead of complete packs making the product very economical.



Ordering information

Test	REF	Measuring range	Number of Tests	Shelf life
■ pH 1–12	90401	1 · 2 · 3 · 4 · 5 · 6 · 7 · 8 · 9 · 10 · 11 · 12	200	3 years
■ pH 0–1.8	90411	0 · 0.3 · 0.6 · 0.8 · 1.0 · 1.2 · 1.5 · 1.8	200	3 years
■ pH 1.0–2.8	90412	1.0 · 1.3 · 1.6 · 1.8 · 2.0 · 2.2 · 2.5 · 2.8	200	3 years
■ pH 1.8–3.8	90413	1.8 · 2.1 · 2.4 · 2.7 · 3.0 · 3.2 · 3.5 · 3.8	200	3 years
■ pH 2.8–4.6	90414	2.8 · 3.1 · 3.4 · 3.6 · 3.8 · 4.0 · 4.3 · 4.6	200	3 years
■ pH 3.8–5.5	90415	3.8 · 4.0 · 4.2 · 4.4 · 4.6 · 4.9 · 5.2 · 5.5	200	3 years
■ pH 4.0–9.0	90424	4.0 · 4.5 · 5.0 · 5.5 · 6.0 · 6.5 · 7.0 · 7.5 · 8.0 · 8.5 · 9.0	200	3 years
■ pH 5.2–6.8	90416	5.2 · 5.5 · 5.7 · 5.9 · 6.1 · 6.3 · 6.5 · 6.8	200	3 years
■ pH 6.0–8.1	90417	6.0 · 6.3 · 6.6 · 6.9 · 7.2 · 7.5 · 7.8 · 8.1	200	3 years
■ pH 7.2–8.8	90419	7.2 · 7.4 · 7.6 · 7.8 · 8.0 · 8.2 · 8.5 · 8.8	200	3 years
■ pH 8.0–9.7	90420	8.0 · 8.2 · 8.4 · 8.6 · 8.8 · 9.1 · 9.4 · 9.7	200	3 years
■ pH 9.5–12.0	90421	9.5 · 10.0 · 10.5 · 11.0 · 11.5 · 12.0	200	3 years
■ pH 10.5–13.0	90422	10.5 · 11.0 · 11.5 · 12.0 · 12.5 · 13.0	200	3 years
■ pH 12.0–14.0	90423	12.0 · 12.5 · 13.0 · 13.5 · 14.0	200	3 years



Universal- and indicator papers

pH indicator papers - standard for many applications

pH indicator papers have been available for decades and are the standard for many applications. For each pH value these papers show a single color which can be matched with the color scale at intervals of 0.2–1 pH units. The indicator papers come in plastic reels that ensure long-term stability and protection against many external influences. They will be always ready-to-use when needed.

MACHEREY-NAGEL also controls the production of the raw papers which ensures – in combination with our ISO 9001 QC system – the high quality of the indicator papers.

The colors of the scales are specially mixed to perfectly match the reaction color of the indicator papers. This makes the reading of results easy and accurate.

Good to know

We produce pH indicator booklets for pharmaceutical industries with a CE-marking for urine diagnostics.



Ordering information

Test	REF	REF refill	Measuring range	Presentation	Shelf life
■ pH 1–11	90201	90202	1 · 2 · 3 · 4 · 5 · 6 · 7 · 8 · 9 · 10 · 11	Reel of 5 m length and 7 mm width	3 years
■ pH 1–11	90203	–	1 · 2 · 3 · 4 · 5 · 6 · 7 · 8 · 9 · 10 · 11	Booklet with 100 strips 10 x 70 mm	3 years
■ pH 1–14	90204	90224	1 · 2 · 3 · 5 · 6 · 7 · 8 · 9 · 10 · 12 · 14	Reel of 5 m length and 7 mm width	3 years
■ pH 0.5–5.5	90205	90225	0.5 · 1.0 · 1.5 · 2.0 · 2.5 · 3.0 · 3.5 · 4.0 · 4.5 · 5.0 · 5.5	Reel of 5 m length and 7 mm width	3 years
■ pH 3.8–5.8	90206	90226	< 3.8 · 3.8 · 4.1 · 4.3 · 4.5 · 4.7 · 4.9 · 5.2 · 5.5 · 5.8 · > 5.8	Reel of 5 m length and 7 mm width	3 years
■ pH 4.0–7.0	90207	90227	4.0 · 4.3 · 4.6 · 4.9 · 5.2 · 5.5 · 5.8 · 6.1 · 6.4 · 6.7 · 7.0	Reel of 5 m length and 7 mm width	3 years
■ pH 5.4–7.0	90208	90228	< 5.4 · 5.4 · 5.7 · 6.0 · 6.2 · 6.4 · 6.7 · 7.0 · > 7.0	Reel of 5 m length and 7 mm width	3 years
■ pH 5.5–9.0	90209	90229	5.5 · 6.0 · 6.5 · 7.0 · 7.5 · 8.0 · 8.5 · 9.0	Reel of 5 m length and 7 mm width	3 years
■ pH 6.4–8.0	90210	90230	< 6.4 · 6.4 · 6.6 · 6.8 · 7.0 · 7.2 · 7.4 · 7.6 · 7.8 · 8.0 · > 8.0	Reel of 5 m length and 7 mm width	3 years
■ pH 7.2–9.7	90211	90231	< 7.2 · 7.2 · 7.5 · 7.8 · 8.1 · 8.4 · 8.7 · 9.0 · 9.3 · 9.7 · > 9.7	Reel of 5 m length and 7 mm width	3 years
■ pH 8.0–10.0	90212	90232	8.0 · 8.2 · 8.4 · 8.7 · 9.0 · 9.2 · 9.6 · 10.0	Reel of 5 m length and 7 mm width	3 years
■ pH 9.0–13.0	90213	90233	9.0 · 9.5 · 10.0 · 10.5 · 11.0 · 11.5 · 12.0 · 12.5 · 13.0	Reel of 5 m length and 7 mm width	3 years
■ pH 12.0–14.0	90214	90234	12.0 · 12.5 · 13.0 · 13.5 · 14.0	Reel of 5 m length and 7 mm width	3 years

refill: Refill pack



Duotest and Tritest

pH papers with multiple indicator zones

By the combination of several indicators on one test paper, a better recognition between different pH values is achieved. This makes the correct pH reading easier.

Duotest – two indicator zones for higher accuracy

Duotest indicator papers combine two different indicator zones on a single strip. The zones are separated by a hydrophobic barrier, which effectively prevents mixing of the reaction colors and increases the mechanical stability.

Tritest – three indicator zones for highest precision

Tritest indicator paper has three different indicator zones on a single paper. The three zones guarantee optimal color differences and safe determination of in-between values. Tritest indicator paper is available for a pH range from 1–11 and feature 1 pH unit increments.

In Tritest L indicator paper, two hydrophobic barriers separate the indicator zones. Even in strongly alkaline solutions, the colors of the zones do not mix.



Ordering information

Duotest

Test	REF	REF refill	Measuring range	Presentation	Shelf life
■ pH 1–12	90301	90311	1 · 2 · 3 · 4 · 5 · 6 · 7 · 8 · 9 · 10 · 11 · 12	Reel of 5 m length and 10 mm width	3 years
■ pH 1.0–4.3	90302	90312	1.0 · 1.3 · 1.6 · 1.9 · 2.2 · 2.5 · 2.8 · 3.1 · 3.4 · 3.7 · 4.0 · 4.3	Reel of 5 m length and 10 mm width	3 years
■ pH 3.5–6.8	90303	90313	3.5 · 3.8 · 4.1 · 4.4 · 4.7 · 5.0 · 5.3 · 5.6 · 5.9 · 6.2 · 6.5 · 6.8	Reel of 5 m length and 10 mm width	3 years
■ pH 5.0–8.0	90304	90314	5.0 · 5.3 · 5.6 · 5.9 · 6.2 · 6.5 · 6.8 · 7.1 · 7.4 · 7.7 · 8.0	Reel of 5 m length and 10 mm width	3 years
■ pH 7.0–10.0	90305	90315	7.0 · 7.3 · 7.6 · 7.9 · 8.2 · 8.5 · 8.8 · 9.1 · 9.4 · 9.7 · 10.0	Reel of 5 m length and 10 mm width	3 years
■ pH 9.5–14.0	90306	90316	9.5 · 10.0 · 10.5 · 11.0 · 11.5 · 12.0 · 12.5 · 13.0 · 13.5 · 14.0	Reel of 5 m length and 10 mm width	3 years

refill: Refill pack

Tritest

Test	REF	REF refill	Measuring range	Presentation	Shelf life
■ pH 1–11	90501	90502	1 · 2 · 3 · 4 · 5 · 6 · 7 · 8 · 9 · 10 · 11	Reel of 5 m length and 10 mm width	3 years
■ L pH 1–11	90510	90511	1 · 2 · 3 · 4 · 5 · 6 · 7 · 8 · 9 · 10 · 11	Reel of 6 m length and 14 mm width	3 years

refill: Refill pack

pH papers without color chart and indicator solutions

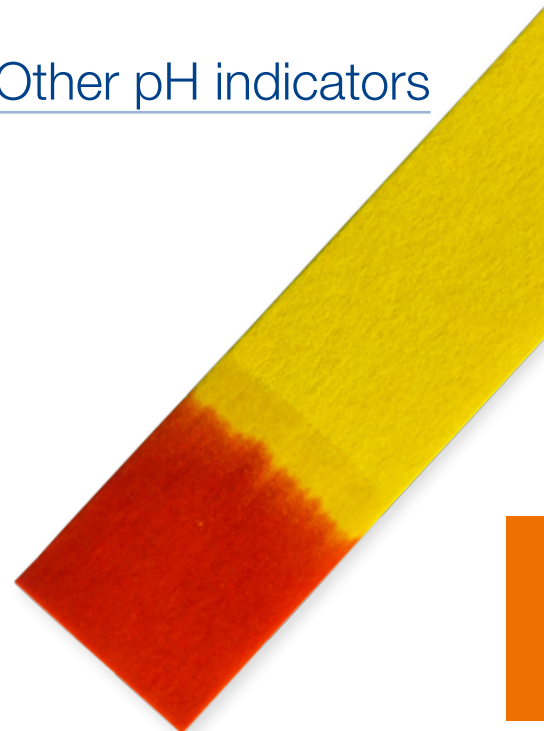
For some specific analytical questions, qualitative pH papers or indicator solutions are used.

Simplest acid/base determination

Qualitative pH papers without color chart are simple, completely impregnated indicator papers. They indicate if the pH of a solution is above or below the transition point (color change) and are useful to distinguish between acids and bases.

pH determinations in weakly buffered solutions

UNISOL indicator solutions are used for pH determination in pure water, in surface waters and in very dilute acids or bases. An indicator solution is added to the sample and the reaction color is compared with a color scale. Therefore, they allow the easy and reliable pH determination in weakly buffered solutions.



Ordering information

pH papers without color scale

Test	REF	REF refill	Color change / pH	Presentation	Shelf life	GHS
■ Brilliant yellow paper	90701	–	yellow → red / 6.7–7.9	Box of 200 strips 20 x 70 mm	2 years	
■ Congo paper MN 816 N	90702	90703	red → blue / 5.0–3.0	Reel of 5 m length and 7 mm width	2 years	■
■ Congo paper MN 616 T	90704	–	red → blue / 5.0–3.0	Box of 200 strips 20 x 70 mm	2 years	■
■ Congo paper MN 260 HE	90705	–	red → blue / 5.0–3.0	Box of 200 strips 20 x 70 mm	2 years	■
■ Litmus paper blue	91106	91116	blue → red / 8.0–5.0	Reel of 5 m length and 7 mm width	3 years	
■ Litmus paper blue	91126	–	blue → red / 8.0–5.0	Booklet of 100 strips 10 x 70 mm	3 years	
■ Litmus paper neutral	91107	91117	red → violet-blue / 5.0–8.0	Reel of 5 m length and 7 mm width	3 years	
■ Litmus paper neutral	91127	–	red → violet-blue / 5.0–8.0	Booklet of 100 strips 10 x 70 mm	3 years	
■ Litmus paper red	91108	91118	red → blue / 5.0–8.0	Reel of 5 m length and 7 mm width	3 years	
■ Litmus paper red	91128	–	red → blue / 5.0–8.0	Booklet of 100 strips 10 x 70 mm	3 years	
■ Nitrazine yellow paper	90711	–	yellow → blue-violet / 6.0–7.0	Box of 200 strips 20 x 70 mm	2 years	
■ Phenolphthalein paper	90712	90713	white → red / 8.3–10.0	Reel of 5 m length and 7 mm width	2 years	

refill: Refill pack

GHS: Globally harmonized system: This product contains harmful substances which must be specially labeled as hazardous. For detailed information please see the SDS.

UNISOL

Test	REF	Measuring range	Presentation	Shelf life	GHS
■ 410, pH 4–10	91002	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 bottle of 100 mL, color chart + cuvette	3 years	■
■ 113, pH 1–13	91031	1 · 2 · 3 · 4 · 5 · 6 · 7 · 8 · 9 · 10 · 11 · 12 · 13	1 bottle of 100 mL, color chart + cuvette	3 years	■
■ Plastic cuvettes MN 13/72	91039	–	Pack of 5 rectangular cuvettes	–	

GHS: Globally harmonized system: This product contains harmful substances which must be specially labeled as hazardous. For detailed information please see the SDS.

QUANTOFIX®

Semi-quantitative test strips

QUANTOFIX® test strips meet all requirements of a modern rapid test. The color of the reactive pad changes depending on the concentration of an analyte in the sample. The evaluation is usually carried out visually by a comparison of the reaction color with a multi-stage color scale.

Easy analysis directly at the point of interest

Analytical professionals as well as occasional testers appreciate QUANTOFIX® test strips for the fast and easy analysis directly at the point of interest. Often, these tests are used to quickly check whether important parameters are in the desired range. They deliver an immediate result and thus enable a fast response.

Complete mini-lab

QUANTOFIX® tests are immediately ready-to-use. They do not require additional accessories. The test strips are intended for single use, maintenance or calibration are not required.

Quantitative, documented results with QUANTOFIX® Relax

The strip reader QUANTOFIX® Relax (see page 154) provides objective and quantitative results for many important parameters (see page 62). Measurement data including time, date and sample ID are printed, stored and can be transmitted to an information system. This allows the rapid and reliable documentation of test results, which proved to be especially useful for QC departments.

Good to know

Many customers receive our QUANTOFIX® test strips as OEM product.



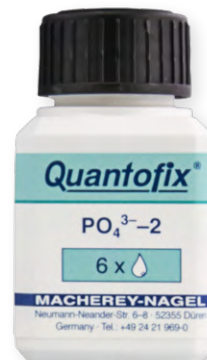
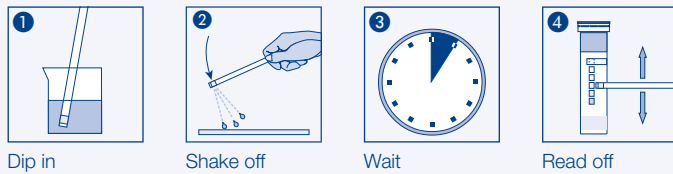
Test papers and test strips



How it's done



Application of QUANTOFIX® test strips



Rapid

- Just Dip & Read
- Results within seconds
- Always ready for use

Easy

- No calibration
- No maintenance
- No accessories

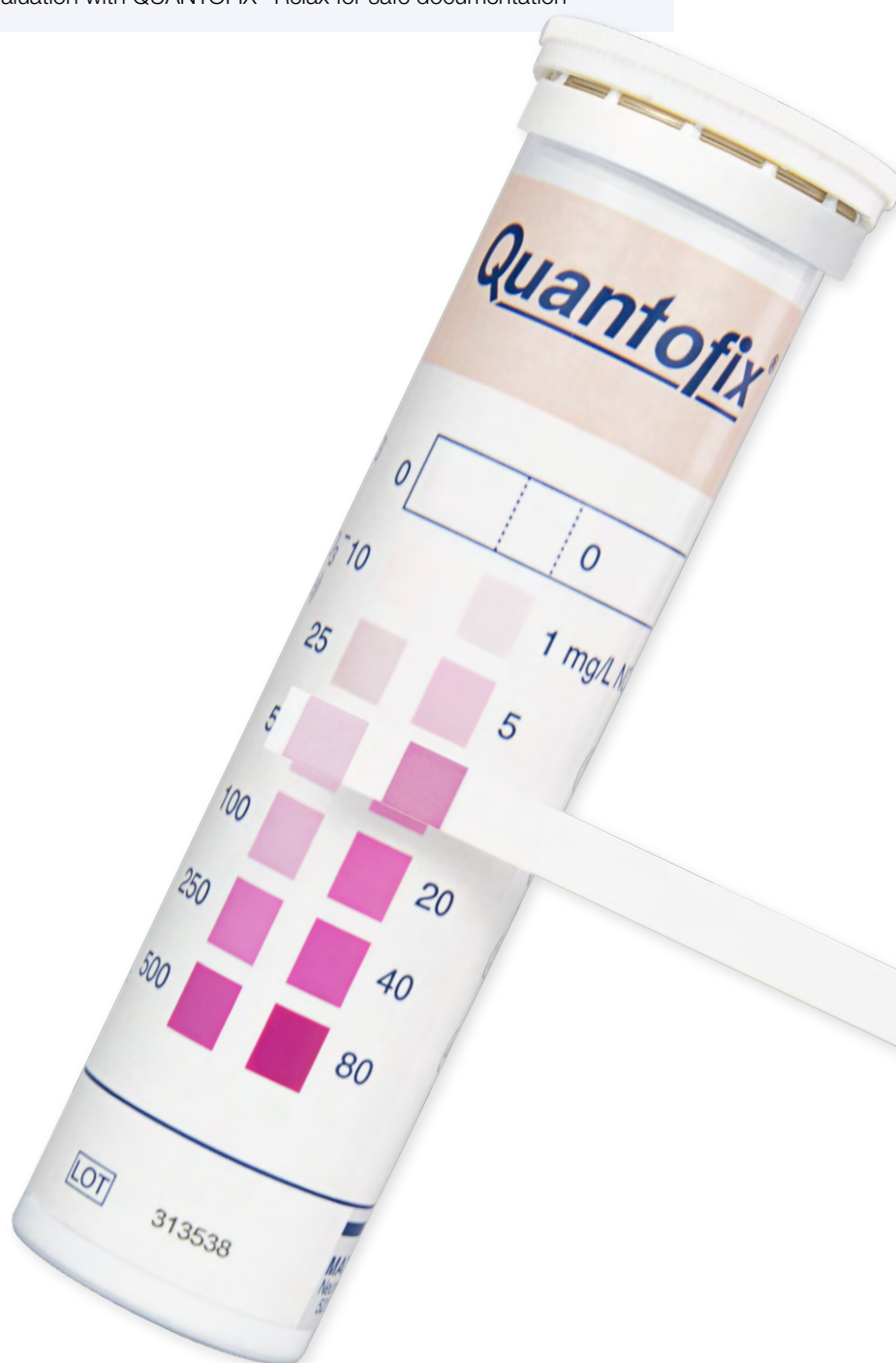
Reliable

- Desiccant in the stopper for optimal protection of the strips against humidity
- Color chart confirmed with traceable standards
- Automatic evaluation with QUANTOFIX® Relax for safe documentation

Good to know



Many QUANTOFIX® test strips can be also evaluated on the strip reader QUANTOFIX® Relax (see page 154).



Ordering information

Test	REF	Measuring range (visual)	Measuring range (instrumental) ¹⁾	Number of tests
■ Active oxygen	91349	0 · 4 · 8 · 15 · 25 mg/L KMPS	–	100
■ Aluminum	91307	0 · 5 · 20 · 50 · 200 · 500 mg/L Al ³⁺	–	100
■ Ammonium	91315	0 · 10 · 25 · 50 · 100 · 200 · 400 mg/L NH ₄ ⁺	10–350 mg/L NH ₄ ⁺	100
■ Arsenic 10	91334	0 · 0.01 · 0.025 · 0.05 · 0.1 · 0.5 mg/L As ^{3+/5+}	–	100
■ Arsenic 50	91332	0 · 0.05 · 0.1 · 0.5 · 1.0 · 1.7 · 3.0 mg/L As ^{3+/5+}	–	100
■ Arsenic Sensitive	91345	0 · 0.005 · 0.01 · 0.025 · 0.05 · 0.1 · 0.25 · 0.5 mg/L As ^{3+/5+}	–	100
■ EZ Arsenic Sensitive PP	91345.2	0 · 0.005 · 0.010 · 0.025 · 0.05 · 0.10 · 0.25 · 0.50 mg/L As ^{3+/5+}	–	100
■ Ascorbic acid	91314	0 · 50 · 100 · 200 · 300 · 500 · 700 · 1000 · 2000 mg/L vitamin C	25–1000 mg/L vitamin C	100
■ Calcium	91324	0 · 10 · 25 · 50 · 100 mg/L Ca ²⁺	–	60
■ Carbonate hardness	91323	0 · 3.8 · 7.5 · 12.5 · 18.8 · 25.0 °e	–	100
■ Chloride	91321	0 · 500 · 1000 · 1500 · 2000 · ≥ 3000 mg/L Cl ⁻	–	100
■ Chlorine	91317	0 · 1 · 3 · 10 · 30 · 100 mg/L Cl ₂ (free)	–	100
■ Chlorine 500	91354	0 · 25 · 50 · 100 · 250 · 500 mg/L Cl ₂	–	100
■ Chlorine dioxide 15	91355	0 · 0.25 · 0.5 · 1 · 3 · 5 · 10 · 15 mg/L ClO ₂	–	50
■ Chlorine dioxide 3000	91357	0 · 10 · 25 · 50 · 100 · 250 · 500 · 1000 · 1500 · 2000 · 2500 · 3000 mg/L ClO ₂	–	100
■ Chlorine Sensitive	91339	0 · 0.1 · 0.5 · 1 · 3 · 10 mg/L Cl ₂ (total)	0.1–10 mg/L Cl ₂	100
■ Chlorine Sensitive 1	91360	0 · 0.05 · 0.1 · 0.2 · 0.4 · 0.8 · 1.2 mg/L Cl ₂ (free)	–	50
■ Chromate	91301	0 · 3 · 10 · 30 · 100 mg/L CrO ₄ ²⁻	–	100
■ Cobalt	91303	0 · 10 · 25 · 50 · 100 · 250 · 500 · 1000 mg/L Co ²⁺	–	100
■ Copper	91304	0 · 10 · 30 · 100 · 300 mg/L Cu ⁺²⁺	–	100
■ Copper Sensitive 5	91358	0 · 0.1 · 0.5 · 1.0 · 2.0 · 5.0 mg/L Cu ⁺²⁺	–	25
■ Cyanide	91318	0 · 1 · 3 · 10 · 30 mg/L CN ⁻	–	100
■ EDTA	91335	0 · 100 · 200 · 300 · 400 mg/L EDTA	–	100
■ Formaldehyde	91328	0 · 10 · 20 · 40 · 60 · 100 · 200 mg/L HCHO	10–200 mg/L HCHO	100
■ Glucose	91348	0 · 50 · 100 · 250 · 500 · 1000 · 2000 mg/L glucose	50–2000 mg/L glucose	100
■ Glutaraldehyde	91343	0 · 0.5 · 1.0 · 1.5 · 2.0 · 2.5 % glutaraldehyde	–	100
■ Iron Sensitive 1	91359	0 · 0.05 · 0.1 · 0.2 · 0.5 · 1.0 mg/L Fe ^{2+/3+}	–	25
■ LubriCheck	91336	0 · 15 · 50 · 75 · 130 · 200 mmol/L KOH	–	100
■ Molybdenum	91325	0 · 5 · 20 · 50 · 100 · 250 mg/L Mo ⁶⁺	–	100
■ Nickel	91305	0 · 10 · 25 · 50 · 100 · 250 · 500 · 1000 mg/L Ni ²⁺	–	100
■ Nitrate 100	91351	Nitrate: 0 · 5 · 10 · 25 · 50 · 75 · 100 mg/L NO ₃ ⁻ Nitrite: 0 · 0.5 · 2 · 5 · 10 · 25 · 50 mg/L NO ₂ ⁻	Nitrate: 3–100 mg/L NO ₃ ⁻ Nitrite: 0.5–50 mg/L NO ₂ ⁻	100
■ Nitrate / Nitrite	91313	Nitrate: 0 · 10 · 25 · 50 · 100 · 250 · 500 mg/L NO ₃ ⁻ Nitrite: 0 · 1 · 5 · 10 · 20 · 40 · 80 mg/L NO ₂ ⁻	Nitrate: 10–500 mg/L NO ₃ ⁻ Nitrite: 0.5–80 mg/L NO ₂ ⁻	100
■ Nitrite	91311	0 · 1 · 5 · 10 · 20 · 40 · 80 mg/L NO ₂ ⁻	0.5–80 mg/L NO ₂ ⁻	100
■ Nitrite 3000	91322	0 · 0.1 · 0.3 · 0.6 · 1 · 2 · 3 g/L NO ₂ ⁻	–	100
■ Nitrite / pH	91338	Nitrite: 0 · 1 · 5 · 10 · 20 · 40 · 80 mg/L NO ₂ ⁻ pH: 6.0 · 6.4 · 6.7 · 7.0 · 7.3 · 7.6 · 7.9 · 8.2 · 8.4 · 8.6 · 8.8 · 9.0 · 9.3 · 9.6	–	100
■ Peracetic acid 50	91340	0 · 5 · 10 · 20 · 30 · 50 mg/L peracetic acid	5–50 mg/L peracetic acid	100
■ Peracetic acid 500	91341	0 · 50 · 100 · 200 · 300 · 400 · 500 mg/L peracetic acid	50–500 mg/L peracetic acid	100

¹⁾ Measuring range for instrumental evaluation with Quantofix Relax. ²⁾ Sets of 3 individually sealed test strips, pack of 50 sets.

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Shelf life	Method	Color change				
			QUANTOFIX® Relax	Additional reagent	GHS	Test
2.5 years	Redox reaction	yellow → green				Active oxygen
2.5 years	Aurin tricarboxylic acid	pink → red		■	■	Aluminum
2.5 years	Nessler	bright yellow → orange	■	■	■	Ammonium
2.5 years	Modified Gutzeit test	white → yellow-brown		■	■	Arsenic 10
2.5 years	Modified Gutzeit test	white → yellow-brown		■	■	Arsenic 50
2.5 years	Modified Gutzeit test	white → yellow-brown		■	■	Arsenic Sensitive
2.5 years	Modified Gutzeit test	white → yellow-brown		■	■	EZ Arsenic Sensitive PP
2.5 years	Phosphomolybdenum blue	yellow → green-blue	■			Ascorbic acid
2.5 years	Glyoxal-bis(2-hydroxyaniline)	yellow → red		■	■	Calcium
2.5 years	Mixed indicator	bright green → blue				Carbonate hardness
2.5 years (2–8 °C)	Silver chromate	brown → yellow				Chloride
2.5 years	Redox reaction	white → red-violet		■	■	Chlorine
2.5 years	Redox reaction	white → blue-green to orange-brown				Chlorine 500
2 year	Redox reaction	colorless → pink				Chlorine dioxide 15
2.5 years	Redox reaction	yellow → dark green (field 1), colorless → brown-black (field 2)				Chlorine dioxide 3000
2.5 years	Redox reaction	yellow → violet	■			Chlorine Sensitive
2.5 years	Redox reaction / hole	white → blue-green				Chlorine Sensitive 1
2 years	Carbazide	white → violet		■	■	Chromate
2.5 years	Rhodanid	white → green-blue				Cobalt
2.5 years	Biquinoline	white → red-violet				Copper
2.5 years	Biquinoline / hole	white → red-violet				Copper Sensitive 5
2.5 years	Barbituric acid derivative	white → violet		■	■	Cyanide
2.5 years	Bismut-xylenolorange	red → yellow				EDTA
2.5 years	Triazol	beige → blue-violet	■	■	■	Formaldehyde
2.5 years	Enzymatic	yellow → blue-green	■			Glucose
2.5 years	Mixed indicator	bright orange → magenta				Glutaraldehyde
2.5 years	Triazine / hole	white → blue				Iron Sensitive 1
2.5 years	Mixed indicator	yellow → blue				LubriCheck
2.5 years	Dithiol	white → green		■	■	Molybdenum
2.5 years	Dimethylglyoxim	white → bright-red				Nickel
2.5 years	Nitrate: modified Griess reaction Nitrite: Griess reaction	yellow → red-violet yellow → red-violet	■			Nitrate 100
2.5 years	Nitrate: modified Griess reaction Nitrite: Griess reaction	Nitrate: white → red-violet Nitrite: white → red-violet	■			Nitrate / Nitrite
2.5 years	Griess reaction	white → red-violet	■			Nitrite
2.5 years	Griess reaction	yellow → red				Nitrite 3000
2.5 years	Nitrite: Griess reaction pH: mixed indicator	Nitrite: white → red-violet pH: yellow-orange → violet-red				Nitrite / pH
2.5 years	Redox reaction	white → blue	■			Peracetic acid 50
2.5 years	Redox reaction	yellow → green	■			Peracetic acid 500

Test	REF	Measuring range (visual)	Measuring range (instrumental) ¹⁾	Number of tests
■ Peracetic acid 2000	91342	0 · 500 · 1000 · 1500 · 2000 mg/L peracetic acid	500–2000 mg/L peracetic acid	100
■ Peroxide 25	91319	0 · 0.5 · 2 · 5 · 10 · 25 mg/L H ₂ O ₂	0.5–25 mg/L H ₂ O ₂	100
■ Peroxide 100	91312	0 · 1 · 3 · 10 · 30 · 100 mg/L H ₂ O ₂	1–100 mg/L H ₂ O ₂	100
■ Peroxide 1000	91333	0 · 50 · 150 · 300 · 500 · 800 · 1000 mg/L H ₂ O ₂	50–1000 mg/L H ₂ O ₂	100
■ Phosphate	91320	0 · 3 · 10 · 25 · 50 · 100 mg/L PO ₄ ³⁻	3–80 mg/L PO ₄ ³⁻	100
■ Phosphate 10	91356	0 · 0.5 · 2.0 · 5.0 · 10.0 mg/L PO ₄ ³⁻	–	50
■ Potassium	91316	0 · 200 · 400 · 700 · 1000 · 1500 mg/L K ⁺	–	100
■ QUAT	91337	0 · 10 · 25 · 50 · 100 · 250 · 500 · 1000 mg/L benzalkonium chloride	–	100
■ Silver	91350	0 · 1 · 2 · 3 · 5 · 7 · 10 g/L Ag ⁺	–	100
■ Sulfate	91329	< 200 · > 400 · > 800 · > 1200 · > 1600 mg/L SO ₄ ²⁻	–	100
■ Sulfite	91306	0 · 10 · 25 · 50 · 100 · 250 · 500 · 1000 mg/L SO ₃ ²⁻	10–500 mg/L SO ₃ ²⁻	100
■ Tin	91309	0 · 10 · 25 · 50 · 100 · 250 · 500 mg/L Sn ²⁺	–	100
■ Total acid	91353	0 · 2 · 2.5 · 3.0 · 3.5 · 4.0 · 4.5 · 5.0 g/L citric acid	2–5 g/L citric acid	100
■ Total iron 100	91344	0 · 2 · 5 · 10 · 25 · 50 · 100 mg/L Fe ^{2+/3+}	–	100
■ Total iron 1000	91330	0 · 5 · 20 · 50 · 100 · 250 · 500 · 1000 mg/L Fe ^{2+/3+}	–	100
■ Total sugar	91352	0 · 55 · 100 · 250 · 400 · 600 · 800 mg/L fructose / glucose	55–700 mg/L fructose / glucose	100
■ Zinc	91310	0 · 2 · 5 · 10 · 25 · 50 · 100 mg/L Zn ²⁺	–	100
■ Nitrate test sets	913918	0 · 10 · 25 · 50 · 100 · 250 · 500 mg/L NO ₃ ⁻ without nitrite chart, but with nitrite test field	–	150 ¹⁾
■ Multistick for aquarium owners	91326 91327	Total hardness: 0 · 6.3 · 12.5 · 18.8 · 25.0 · 31.3 °e Carbonate hardness: 0 · 3.8 · 7.5 · 12.5 · 18.8 · 25.0 °e pH: 6.4 · 6.8 · 7.2 · 7.6 · 8.0 · 8.4	–	100 25

¹⁾ Measuring range for instrumental evaluation with Quantofix Relax. ²⁾ Sets of 3 individually sealed test strips, pack of 50 sets.

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Shelf life	Method	Color change				
			QUANTOFIX® Relax	Additional reagent	GHS	Test
2.5 years	Redox reaction	bright yellow → red	■			Peracetic acid 2000
2.5 years	Redox reaction	white → blue	■			Peroxide 25
2.5 years	Redox reaction	white → blue	■			Peroxide 100
2.5 years	Redox reaction	white → brown	■			Peroxide 1000
2.5 years	Phosphomolybdenum blue	white → blue-green	■	■	■	Phosphate
2.5 years	Phosphomolybdenum blue	yellow-green → green-blue				Phosphate 10
2.5 years	Dipikrylamine	yellow → orange		■		Potassium
2.5 years	Mixed indicator	yellow → blue-green				QUAT
2.5 years	Silver sulfide	yellow → brown				Silver
2.5 years	Ba-thorine-complex	red → yellow				Sulfate
2.5 years	Nitroprussid / Zn-hexacyanoferrate	white → salmon	■			Sulfite
2.5 years	Phosphomolybdic acid	white → dark blue				Tin
2.5 years	Mixed indicator	pink → yellow	■			Total acid
2.5 years	Triazine	white → blue-violet				Total iron 100
2.5 years	2,2'-bipyridine	white → dark red				Total iron 1000
2 years (2–8 °C)	Enzymatic	yellow → ochre	■	■		Total sugar
2.5 years	Dithizone	orange → red		■	■	Zinc
9 months	Nitrate: modified Griess reaction Nitrite: Griess reaction	white → red-violet				Nitrate test sets
2.5 years	Total hardness: EDTA Carbonate hardness: mixed indicator pH: mixed indicator	Total hardness: green → red Carbonate hardness: bright green → blue pH: yellow → red				Multistick for aquarium owners



AQUADUR® and other test strips

Tests for special applications

A range of tests was developed for specific applications and questions. They provide solutions for particular requirements.

AQUADUR® – easy determination of water hardness

AQUADUR® test strips are made for the easy determination of water hardness allowing to optimize the dosing of water softeners.

AQUADUR® Sensitive – highly sensitive determination of water hardness

Feed water for reversed osmosis units needs to have a very low water hardness. AQUADUR® Sensitive is used, for example, in dialysis practices to test the quality of the water after the first softening.

Moisture indicators without cobalt chloride

Commonly used moisture indicators often contain cobalt chloride which has been found to be carcinogenic and toxic. Contact to these types of indicators may present a health and safety risk to staff. The patented non-toxic moisture indicators eliminate these risks and increase safety. They have a very clear color change from red to yellow.

Good to know



< 50 ppm CaCO₃ – very soft water
 50–120 ppm CaCO₃ – soft water
 120–240 ppm CaCO₃ – medium hard water
 240–360 ppm CaCO₃ – hard water
 Above 360 ppm CaCO₃ – very hard water

Ordering information

Test	REF	Measuring range	Presentation
■ Ag-Fix for silver in fixing baths	90741	0·0.5·1·2·3·5·7·10 g/L Ag ⁺ pH 4·5·6·7·8	Box of 100 test strips 6 x 95 mm
■ Ammonia test	90714	0·0.5·1·3·6 mg/L NH ₄ ⁺	Box of 25 test strips 7 x 60 mm
■ AQUADUR® 4–14, box	91239	< 54·> 72·> 151.2·> 252 ppm CaCO ₃	Box of 100 test strips 6 x 95 mm
■ AQUADUR® 4–21, box	91220	< 54·> 72·> 126·> 252·> 378 ppm CaCO ₃	Box of 100 test strips 6 x 95 mm
■ AQUADUR® 4–21, bulk	91222	< 54·> 72·> 126·> 252·> 378 ppm CaCO ₃	Pack of 5000 test strips without scale
■ AQUADUR® 4–21, individually sealed	91224	< 54·> 72·> 126·> 252·> 378 ppm CaCO ₃	1000 test strips, individually sealed with scale
■ AQUADUR® 4–21, individually sealed	91240	< 54·> 72·> 151.2·> 252·> 378 ppm CaCO ₃	1000 test strips, individually sealed with scale
■ AQUADUR® 5–25, box	91201	< 54·> 90·> 180·> 270·> 360·> 450 ppm CaCO ₃	Box of 100 test strips 6 x 95 mm
■ AQUADUR® 5–25, bulk	91221	< 54·> 90·> 180·> 270·> 360·> 450 ppm CaCO ₃	Pack of 5000 test strips without scale
■ AQUADUR® 5–25, individually sealed	91223	< 54·> 90·> 180·> 270·> 360·> 450 ppm CaCO ₃	1000 test strips, individually sealed with scale
■ AQUADUR® 5–25, test sets	912902	< 54·> 90·> 180·> 270·> 360·> 450 ppm CaCO ₃	Sets of 3 individually sealed test strips, pack of 50 sets
■ AQUADUR® Sensitive, box	91243	0·5.4·10.8·18.8 ppm CaCO ₃	Box of 50 test strips 6 x 95 mm
■ Chlorine test	90709	10·50·100·200 mg/L Cl ₂ (total)	Reel of 5 m length and 10 mm width
■ Cyanuric acid test (swimming pools)	90710	0·50·100·150·300 mg/L Cya	Box of 25 test strips 6 x 95 mm
■ Fluoride test	90734	0·2·5·10·20·50·100 mg/L F ⁻	Box of 30 test discs with reagents
■ Indiquat (QUATs)	–	According to customer request	Reel of 5 m length and 10 mm width
■ Moisture indicator	90801	20·30·40·50·60·70·80 % rel. humidity	Pack of 12 adhesive labels 50 x 100 mm
■ Moisture indicator	908805	8 % rel. humidity	Pack of 1000 pcs 60 x 35 mm
■ Moisture indicator	908808	8 % rel. humidity	Pack of 1000 pcs 60 x 35 mm
■ Ozone test (air)	90736	< 90·90–150·150–210·> 210 µg/m ³ O ₃	Box of 12 test strips 10 x 95 mm
■ Saltesmo (halide ions)	90608	0·0.25·0.5·1·2·3·4·5 g/L NaCl	Box of 30 test discs
■ Swimming pool test 3 in 1	90752	Free Chlorine: 0·0.5·1·3·5·10 mg/L Cl ₂ Alkalinity: 0·80·120·180·240 mg/L CaCO ₃ pH: 6.4·6.8·7.2·7.6·8.4	Box of 50 test strips 6 x 95 mm
■ Swimming pool test 5 in 1	90759	like 90752, in addition: total chlorine: 0·1·3·5·10 mg/L Cl ₂ total hardness: 0·100·250·500·1000 mg/L CaCO ₃	Box of 50 test strips 6 x 95 mm

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AQUADUR® and other test strips

Shelf life	GHS	Test
2.5 years		Ag-Fix for silver in fixing baths
2.5 years		Ammonia test
2 years		AQUADUR® 4-14, box
2 years		AQUADUR® 4-21, box
15 months		AQUADUR® 4-21, bulk
1 year		AQUADUR® 4-21, individually sealed
1 year		AQUADUR® 4-21, individually sealed
2 years		AQUADUR® 5-25, box
15 months		AQUADUR® 5-25, bulk
1 year		AQUADUR® 5-25, individually sealed
1 year		AQUADUR® 5-25, test sets
2 years		AQUADUR® Sensitive, box
2 years		Chlorine test
2.5 years		Cyanuric acid test (swimming pools)
2 years		Fluoride test
2 years		Indiquat (QUATs)
2 years	■	Moisture indicator
1 year	■	Moisture indicator
1 year		Moisture indicator without cobalt chloride
1.5 years		Ozon test (air)
1.5 years		Saltesmo (halide ions)
2 years		Swimming pool test 3 in 1
2 years		Swimming pool test 5 in 1



Test papers without color chart

Simple test papers for qualitative determinations

These test papers come without a color scale. With little effort, the presence of ions and other substances can be detected. The test papers change color when the concentration is above the specified limit of detection.

Test papers for criminal investigations

Peroxtesmo KM is sensitive to peroxidase and detects blood traces.

Sperm traces can be detected using Phosphatesmo KM which is specific for acidic phosphatase. Both test papers are used in the investigation of crime scenes.

Test papers for milk analysis

The test paper Peroxtesmo MI allows the easy distinction between raw milk and high temperature milk. It is sensitive for the enzyme lactoperoxidase. In contrast to liquid indicators based on guaiacol, Peroxtesmo MI does not smell and comes without hazardous reagents which is convenient and safe for the user.

Phosphatesmo MI detects alkaline phosphatase in milk and is a rapid and easy indicator for the successful pasteurization of milk.

Test papers for oil and oil tanks

Oil test paper is recommended for the rapid determination of oil contaminations in water and soil. On contact with oil the paper turns dark blue.

AQUATEC allows the easy and reliable detection of water at the bottom of petrol and fuel oil tanks. It is also suitable to measure the thickness of water layers in oil separators.



Ordering information

Test	REF	Determination of	Presentation
Aluminum test paper	90721	Aluminum ions (Al^{3+})	Box of 100 strips 20 x 70 mm
Ammonium test paper	90722	Ammonia, ammonium ions (NH_3 , NH_4^+)	Box of 200 strips 20 x 70 mm
Antimony test paper	90723	Antimony ions (Sb^{3+})	Box of 200 strips 20 x 70 mm
Arsenic test paper	90762	Arsenic, arsine (As , AsH_3)	Box of 200 strips 20 x 70 mm
Bismuth test paper	90733	Bismuth ions (Bi^{3+})	Box of 200 strips 20 x 70 mm
Chlortesmo	90603	Chlorine, free halogens	Box of 200 strips 20 x 70 mm
Chromium test paper	90724	Chromium, chromate ($Cr(VI)$ CrO_4^{2-})	Box of 200 strips 20 x 70 mm
Cobalt test paper	90728	Cobalt ions (Co^{2+})	Box of 100 strips 20 x 70 mm
Copper test paper	90729	Copper(II) ions (Cu^{2+})	Box of 200 strips 20 x 70 mm
Cuprotesmo	90601	Copper ions (Cu , Cu^+ , Cu^{2+})	Box of 40 sheets 40 x 25 mm
Cyantesmo	90604	Cyanide, hydrocyanic acid (CN^- , HCN)	Reel of 5 m length and 10 mm width
Dipyridyl paper	90725	Iron(II) ions (Fe^{2+})	Box of 200 strips 20 x 70 mm
Fluoride test paper	90750	Fluoride, hydrofluoric acid (F^- , HF)	Box of 200 strips 20 x 70 mm
Indanthrene yellow paper	90751	Vat dyes, end-point of conversion	Box of 200 strips 20 x 70 mm
Indipro	90765	Protein residues	Box of 60 test strips 10 x 95 mm and additional reagents
Iron test paper	90726	Iron ions (Fe^{2+} , Fe^{3+})	Box of 100 strips 20 x 70 mm
Lead acetate paper	90744	Hydrogen sulfide, sulfide ions (H_2S , S^{2-})	Reel of 5 m length and 7 mm width
Lead acetate paper	90745	Hydrogen sulfide, sulfide ions (H_2S , S^{2-})	Refill pack with 3 reels
Lead acetate paper	90746	Hydrogen sulfide, sulfide ions (H_2S , S^{2-})	Booklet of 100 strips 10 x 70 mm
Mercury bromide paper	90762	Arsenic, arsine (As , AsH_3)	Box of 200 strips 20 x 70 mm
Nickel test paper	90730	Nickel(II) ions (Ni^{2+})	Box of 200 strips 20 x 70 mm
Nitratesmo	90611	Nitrate and nitrite (NO_3^- , NO_2^-)	Reel of 5 m length and 10 mm width
Oil test paper	90760	Oil in water and soil	Box of 100 strips 20 x 70 mm

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Test papers and test strips

Perfect analysis for dairy industry



Simply safe

- Fast results
- Easy to use
- Determination of pH, peroxide, peracetic acid, phosphatase and peroxidase




Detection limit	Shelf life	GHS	Test
10 mg/L Al ³⁺	2 years		Aluminum test paper
10 mg/L NH ₄ ⁺	2 years	■	Ammonium test paper
5 mg/L Sb ³⁺	2 years		Antimony test paper
0.5 µg arsenic	2 years	■	Arsenic test paper
60 mg/L Bi ³⁺	2 years		Bismuth test paper
1 mg/L Cl ₂	2 years		Chlortesmo
2 mg/L Cr ³⁺ / 5 mg/L CrO ₄ ²⁻	2 years		Chromium test paper
25 mg/L Co ²⁺	2 years		Cobalt test paper
20 mg/L Cu ²⁺	2 years		Copper test paper
0.05 µg Cu on surfaces	1.5 years		Cuprotesmo
0.2 mg/L HCN	2 years	■	Cyantesmo
2 mg/L Fe ²⁺	2 years		Dipyridyl paper
20 mg/L F ⁻	2 years		Fluoride test paper
Alkaline sodium dithionite traces	2 years		Indanthrene yellow paper
50 µg BSA (bovine serum albumin)	2 years	■	Indipro
10 mg/L Fe ²⁺ or Fe ³⁺	2 years		Iron test paper
5 mg/L S ²⁻	2 years	■	Lead acetate paper
5 mg/L S ²⁻	2 years	■	Lead acetate paper
5 mg/L S ²⁻	2 years	■	Lead acetate paper
0.5 µg arsenic	2 years	■	Mercury bromide paper
10 mg/L Ni ²⁺	2 years		Nickel test paper
10 mg/L NO ₃ ⁻ / 5 mg/L NO ₂ ⁻	2 years		Nitratesmo
250 mg/L petroleum ether / 10 mg/L gasoline (high octane) / 5 mg/L fuel oil / 1 mg/L lubricating oil	3 years		Oil test paper

Test papers without color chart

Test	REF	Determination of	Presentation
■ Peroxtesmo KM	90605	Blood traces (peroxidase)	Box of 25 test papers 15 x 30 mm
■ Peroxtesmo KO	90606	Peroxidase in food	Box of 100 test papers 15 x 15 mm
■ Peroxtesmo MI	90627	Peroxidase in milk	Box of 100 test papers 15 x 15 mm
■ Phosphatesmo KM	90607	Sperm, acid phosphatase	Box of 25 test papers 15 x 30 mm
■ Phosphatesmo MI	90612	Alkaline phosphatase in milk	Box of 50 test strips 10 x 95 mm
■ Plumbtesmo	90602	Lead, lead ions (Pb, Pb ²⁺)	Box of 40 sheets 40 x 25 mm
■ Potassium iodate starch paper	90753	Nitrous acid, sulfur dioxide	Reel of 5 m length and 7 mm width
■ Potassium iodide starch paper	90754	Nitrite ions, nitrous acid, ozone, chlorine (NO ₂ ⁻ , HNO ₂ , O ₃ , Cl ₂)	Reel of 5 m length and 7 mm width
■ Potassium iodide starch paper	90755	Nitrite ions, nitrous acid, ozone, chlorine (NO ₂ ⁻ , HNO ₂ , O ₃ , Cl ₂)	Refill pack with 3 reels
■ Potassium iodide starch paper	90756	Nitrite ions, nitrous acid, ozone, chlorine (NO ₂ ⁻ , HNO ₂ , O ₃ , Cl ₂)	Booklet of 100 strips 10 x 70 mm
■ Potassium iodide starch paper	90758	Nitrite ions, nitrous acid, ozone, chlorine (NO ₂ ⁻ , HNO ₂ , O ₃ , Cl ₂)	Box of 200 strips 20 x 70 mm
■ Potassium test paper	90727	Potassium ions (K ⁺)	Box of 200 strips 20 x 70 mm
■ Silver test paper	90732	Silver ions (Ag ⁺)	Box of 200 strips 20 x 70 mm
■ Sulfide test paper	90761	Hydrogen sulfide, sulfide ions (H ₂ S, S ²⁻)	Reel of 5 m length and 7 mm width
■ Sulfite test paper	90763	Hydrogen sulfide, sulfite ions (SO ₂ , SO ₃ ²⁻)	Box of 100 strips 20 x 70 mm
■ Tumeric paper	90747	Boric acid, borates (H ₃ BO ₃ , BO ₃ ³⁻)	Box of 200 strips 20 x 70 mm
■ Udder test paper	90748	Mastitis	20 sheets 90 x 140 mm in PE bag
■ Waterfinder test paper	90630	Water in organic solutions	Reel of 7 m length and 14 mm width
■ Watesmo	90609	Water in organic solutions	Reel of 5 m length and 10 mm width
■ Water	90610	Water distribution in butter	Box of 50 sheets 78 x 40 mm
■ Zirconium test paper	90721	Zirconium ions (Zr ⁴⁺)	Box of 100 strips 20 x 70 mm

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Test papers without color chart

Detection limit	Shelf life	GHS	Test
Blood traces	1.5 years		Peroxtesmo KM
Peroxidase traces	2.5 years	■	Peroxtesmo KO
3% raw milk in UHT milk	1 year		Peroxtesmo MI
Sperm traces	1.5 years		Phosphatesmo KM
0.5% raw milk in pasteurized milk / 300 U/L alkaline phosphatase in UHT milk	1 year (2–8 °C)		Phosphatesmo MI
5 mg/L Pb ²⁺	15 months		Plumbtesmo
5 mg/L SO ₂	2 years		Potassium iodate starch paper
1 mg/L NO ₂ ⁻ / 1 mg/L Cl ₂	2 years		Potassium iodide starch paper
1 mg/L NO ₂ ⁻ / 1 mg/L Cl ₂	2 years		Potassium iodide starch paper
1 mg/L NO ₂ ⁻ / 1 mg/L Cl ₂	2 years		Potassium iodide starch paper
1 mg/L NO ₂ ⁻ / 1 mg/L Cl ₂	2 years		Potassium iodide starch paper
250 mg/L K ⁺	2 years		Potassium test paper
20 mg/L Ag ⁺	2 years		Silver test paper
5 mg/L S ²⁻	2 years		Sulfide test paper
10 mg/L Na ₂ SO ₃	2 years		Sulfite test paper
20 mg/L B / 100 mg/L H ₃ BO ₃	2 years		Tumeric paper
Mastitis traces	2 years		Udder test paper
Traces of water	2 years		Waterfinder test paper
Traces of water	2 years		Watesmo
Traces of water	2 years		Water
20 mg/L Zr ⁴⁺	2 years		Zirconium test paper

