

QUANTOFIX® Aluminum

Pack content:

1 aluminum container with 100 test strips
1 bottle Al^{3+} -1
1 bottle Al^{3+} -2

1 measuring vessel with 5 mL mark
1 test tube

Safety precautions:

Reagent Al^{3+} -1 contains potassium hydroxide solution 14–55% CAS 1310-58-3. Reagent Al^{3+} -2 contains acetic acid 10–25% CAS 64-19-7. DANGER Causes severe skin burns and eye damage. Do not breathe vapors. Wear protective gloves/eye protection. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. For further information, please ask for safety data sheet (see www.mn-net.com/MSDS).

General indications:

Remove only as many test strips as are required. Close the container immediately after removing a strip. Do not touch the test field.

Additional indications:

The red coloration of the unused test field is normal and does not indicate any decomposition of the reagents.

Instructions for use:

1. Rinse the measuring vessel with the test solution and fill it to the 5 mL mark.
2. Add 6 drops Al^{3+} -1 (potassium hydroxide solution) to the sample.
3. Shake carefully (pH 13.5–14).
4. Dip the test strip into the test solution for 1 second.
5. Shake off excess liquid.
6. Place the test tube into the cavity of the thermoformed mould.
7. Fill with 6 drops Al^{3+} -2.
8. Place test strip into the filled test tube.
9. Wait 60–120 seconds.
10. Shake off excess liquid.
11. Compare with the color scale.

If aluminum ions are present, the test field turns red (pink = 0 mg/L).

Interferences:

Beryllium(II) interferes with the determination. Copper(II) ions in concentrations above 10 mg/L interfere (precipitation with potassium iodide or cadmium powder).

The following anions lead to a fading of the color reaction with corresponding low test results:

> 100 mg/L MnO_4^- , PO_4^{3-} , S^{2-} , SO_3^{2-}

> 500 mg/L $\text{B}_4\text{O}_7^{2-}$, F^- , $\text{Fe}(\text{CN})_6^{3-}$, $\text{S}_2\text{O}_4^{2-}$, $\text{S}_2\text{O}_5^{2-}$, SiO_4^{4-} , citrate and tartrate.

Disposal:

The used analysis specimens can be flushed down the drain with tap water and channeled off to the local sewage treatment works. Used test strips can be disposed in household waste.

Storage:

Avoid exposing the strips to sunlight and moisture. Keep container cool and dry (storage temperature not above +30 °C).

If correctly stored, the test strips may be used until the use-by-date printed on the packaging.

Product data and ordering information

Type	Semi-quantitative test strips
Presentation	Tube of 100 test strips 6x95 mm and reagents
Color reaction	pink to red
Gradation	0 · 5 · 20 · 50 · 200 · 500 mg/l (ppm) Al^{3+}
REF	91307

