



QUANTOFIX[®] Arsenic Sensitive

Description:

Detection of inorganic arsenic(III) and arsenic(V) compounds in water samples results from adding zinc powder and a solid acid. Liberated arsenic hydride reacts with mercury(II)bromide contained in the test field to form yellow through brown arsenic-mercury halogenides. An oxidizing agent is also added for the elimination of interfering sulfide ions (false positive results).

Pack content:

1 aluminum container with 100 test strips	2 reaction vessels incl. screw cap
1 bottle of As-I	2 colored measuring spoons
1 bottle of As-II	1 color scale
1 bottle of As-III	1 waste bag for used test strips

General indications:

Remove only as many test strips as are required. Close the container immediately after removing the strips. Do not touch the test field. Dispose of used test strips in a dustbin liner and eliminate according to local environmental regulations.

Hazard warnings:

Information regarding safety can be found on the box' label and in the safetydata sheet. You can download the SDS from www.mn-net.com/SDS.

Instructions for use:

1. Fill reaction vessel up to the label (100 mL) with the sample solution
2. Add 2 drops of As-I
3. Shake gently for 2 seconds
4. Carefully open As-II bottle and add 1 level spoon (white!)
5. Shake gently for 2 seconds
6. Carefully open As-III bottle and add 1 level spoon (red!)
7. Shake gently for 2 seconds
8. Close reaction vessel with screw cap
9. Raise the opening in the screw cap
10. Insert the test strip through the opening into the reaction vessel
11. The test pad must show in the same direction as the green circle on the opening
12. Completely close the opening, so that 2 cm of test strip stick out from the opening
13. Wait 15 minutes
14. Raise the opening and take out the test strips
15. Dip test strip into water for 2 seconds
16. Shake off excess liquid
17. Compare test strip to color scale

WARNING: Hydrogen and arsine are liberated during the test. Use only in well-ventilated areas and keep away from ignition sources.

Dispose of the solution down the sink with plenty of water immediately after carrying out the test, and rinse the reaction vessel with plenty of water. Remove any residues with a brush or diluted hydrochloric acid and rinse again with a plenty of water. A new test can then be carried out.

Interferences:

The following ions interfere with the determination only when the concentrations below are exceeded:

1000 mg/L: Ca²⁺, K⁺, Mg²⁺, Na⁺, Zn²⁺, Cl⁻, CN⁻, CO₃²⁻, SO₄²⁻, EDTA; 500 mg/L: Fe²⁺, Fe³⁺, F⁻; 100 mg/L: Al³⁺, Sn²⁺, CrO₄²⁻, NO₂⁻, NO₃⁻, PO₄³⁻; 25 mg/L: ClO₃⁻; 5 mg/L: Co²⁺; 2 mg/L: S²⁻, SO₃²⁻; 1 mg/L: Ni²⁺; Sb³⁺, SeO₃²⁻, S₂O₃²⁻; 0,5 mg/L: Ag⁺, Cu²⁺.

Disposal:

Information regarding disposal can be found in the safety data sheet. You can download the SDS from www.mn-net.com/SDS.

Storage:

Avoid exposing the strips to sunlight and moisture. Keep container cool and dry (storage temperature 4–30 °C). If correctly stored, the test strips may be used until the use-by-date printed on the packaging.

Additional information:

The test strip container stopper contains a non-toxic drying agent. If swallowed, drink plenty of water.

CTL SCIENTIFIC SUPPLY CORP. 1016-3 Grand Boulevard, Deer Park, NY 11729

Tel: 631-242-4249

Web: www.ctlscientific.com

Manufacturer: Macherey-Nagel GmbH & CO. KG

Rev: 2025-03