

QUANTOFIX® Arsenic Sensitive

Method:

Detection of inorganic arsenic(III) and arsenic(V) compounds in water samples results from adding zinc powder and a solid acid. Arsenic hydride is liberated which 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).

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

Precautions:

Each test field on the test strips contains mercury(II)bromide. Toxic in contact with skin. As-II contains sulfamic acid: Causes skin irritation. Causes serious eye irritation. Harmful to aquatic life with long lasting effects. Wear protective gloves/eye protection. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. As-III contains zinc powder: Very toxic to aquatic life with long lasting effects. Avoid release into the environment.

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.**

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. Add 1 level spoon (white!) of As-II
5. Shake gently for 2 seconds
6. Add 1 level spoon (red!) of As-III
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

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⁺.

Storage:









Avoid exposing the strips to sunlight and moisture. Keep container cool and dry (storage temperature between 4 °C and 35 °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.

Revised: 2011-01

Explanation of symbols

	Use by		Lot number
	Catalog number		Package content
	Keep container closed		Protect from humidity
	Storage temperature		Observe the safety precautions in instructions

