

QUANTOFIX® Arsenic Sensitive

Method:

Detection of anorganic 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:

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

Interferences:

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

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

Product data and ordering information	
Type	Semi-quantitative test strips
Presentation	Rugged case, tube with 100 test strips, reagents and all necessary equipment
Color reaction	white to yellow-brown
Gradation	0 · 0,005 · 0,01 · 0,025 · 0,05 · 0,1 · 0,25 · 0,5 mg/l (ppm) As ^{3+/5+}
REF	91345

Explanation of symbols

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

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