

QUANTOFIX® Iron Sensitive 1

Description:

QUANTOFIX® Iron Sensitive 1 are test strips for the semi-quantitative determination of the iron content in the concentration range of 0.05–1.0 mg/L in aqueous solutions.

Contents:

1 aluminum tin with 25 test strips

Measuring range:

0.05–1.0 mg/L $\text{Fe}^{2+/3+}$

Color gradations:

0 · 0.05 · 0.1 · 0.2 · 0.5 · 1.0 mg/L $\text{Fe}^{2+/3+}$

Reaction principle:

Iron reacts with an organic complexing agent to form a blue complex.

General information:

Always remove only the number of test strips needed. Immediately close the tin after removing test strips. Do not touch the test field. Protect test strips from moisture.

Instructions for use:

1. Dip the test strip into the test solution, moving back and forth for approx. 30 seconds.
2. Shake off excess liquid.
3. Wait 30 seconds.
4. Place the test strip next to the color scale on the label. Compare the test field through the hole with the color scale. The opening at the end of the strip is **not** used for the interpretation.

Interpretation:

If iron is present, the test field turns blue. Discolorations after the reaction time should no longer be taken into consideration for the interpretation.

Interferences:

The influence of foreign substances was verified individually in solutions with 0 mg/L and 0.2 mg/L $\text{Fe}^{2+/3+}$. The determination is not impaired by the following foreign substance concentrations:

- < 1000 mg/L K^+ , NO_3^- , Mg^{2+}
- < 500 mg/L PO_4^{3-} , Mo^{6+}
- < 100 mg/L NH_4^+
- < 50 mg/L SO_4^{2-}
- < 10 mg/L Cu^{2+} , NO_2^- , Co^{2+} , Zn^{2+} , Al^{3+} , CN^- , Pb^{2+}
- < 3.5 mg/L CaCO_3 (0.2 °dKH)
- < 1 mg/L CrO_4^{2-} , Ni^{2+}

Disposal:

Dispose of used test strips in household waste.

Storage conditions:

Protect test strips from sunlight and moisture. Store tin in a cool and dry location (storage temperature 4–30 °C).

If stored properly, the test strips can be stored until the printed expiry date.

