

QUANTOFIX[®] Phosphate 10

Description:

QUANTOFIX[®] Phosphate 10 are test strips for the semi-quantitative determination of the phosphate content in the concentration range of 0.5–10 mg/L in aqueous solutions. Patent No. 11,169,094.

Contents:

1 aluminum container with 50 test strips

Measuring range:

0.5–10 mg/L PO₄³⁻

Colour gradations :

0 · 0.5 · 2.0 · 5.0 · 10.0 mg/L PO₄³⁻

Reaction principle:

Phosphate reacts with a molybdenum salt to form phosphomolybdic acid and then through organic redox systems to form green-blue oxidation products.

Hazard warnings:

This test does not contain hazardous substances that must be labelled.

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.

Instructions for use:

1. Immerse test strip in sample for 2 s.
2. Do not shake off excess liquid.
3. Wait 60 s
4. and compare immediately with the color scale.

Interpretation:

If phosphate is present, the test field turns blue-green. Discolourations after the reaction time should no longer be taken into consideration for the interpretation.

Interferences:

Orthophosphate is detected. Other phosphates, such as poly-, pyro- and metaphosphates, must be hydrolyzed for the determination of total phosphates. Silica contents (SiO₂) greater than 50 mg/L react in the same way giving a green coloration and simulating a higher phosphate content. The same applies to arsenates (AsO₄³⁻). However, the limit for false-positive results in this case is 10 mg/L. Starting at 500 mg/L arsenate, no discoloration can be detected anymore. The determination is not impaired by the following foreign substance concentrations:

<1000 mg/L Ag⁺, Al³⁺, Cd²⁺, Co²⁺, Cr³⁺, Mg²⁺, Mn²⁺, Ni²⁺, Cl⁻, F⁻, NO₃⁻, SO₄²⁻, oxalate, tartrate, citrate,
<500 mg/L NH₄⁺,
<250 mg/L Zn²⁺,
<20 mg/L NO₂⁻,
<5 mg/L Cl₂,
<1 mg/L Fe²⁺ / Fe³⁺.

Additional information:

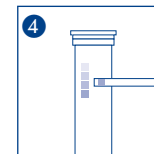
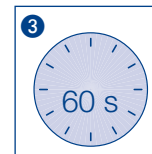
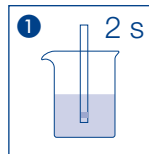
The test strip container stopper contains a non-toxic drying agent. If swallowed, drink plenty of water.

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.



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