QUANTOFIX® Phosphate

Pack content:

1 aluminum container with 100 test strips

1 bottle PO³⁰-1

1 bottle PO⁻³°-2

1 measuring vessel with 5 mL mark

1 test tube

Measuring range:

Visually 3–100 mg/L PO⁻³° Reflectometrically 3–80 mg/L PO⁻³°

Color gradation:

0.3.10.25.50.100 mg/L PO30

Safety precautions:

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

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. Rinse the measuring vessel with the test solution and fill it to the 5 mL mark.
- 2. Add 5 drops PO³°-1 (nitric acid) to the sample.
- 3. Shake carefully.
- 4. Place the measuring vessel on the benchtop and remove the test tube from the package.
- 5. Place the test tube into the cavity of the thermoformed mould.
- 6. Add 6 drops PO30-2 to the test tube.
- 7. Insert the test strip into the sample.
- 8. Wait 15 seconds.
- 9. Shake off excess liquid.
- 10. Place test strip into the filled test tube.
- 11. Wait 15 seconds.
- 12. Shake off excess liquid.
- 13. Wait 60 seconds.
- 14. Compare with the color scale.

If phosphate ions are present, the test field turns blue-green.

Interferences:

This test only detects ortho-phosphate. Other phosphates, such as poly-, pyro- and metaphosphates have to be broken down from the total phosphate by digestion. Silicic acid (SiO) contents above 10 mg/L reacts in the same way giving a blue colouration thus simulating a higher phosphate concentration. Larger concentrations of sulfide ions ($S^{2\circ}$) cause a brown color of the test field, and smaller concentrations lead to low test results

The following ions didn't interfere the determination:

- < 1000 mg/L Ag″, Al 3 ″, Cd 2 ″, Co 2 ″, Cr $_3$ ″, Mg 2 ″, Mn 2 ″, NH * ″, Ni 2 ″, Zn 2 ″, Cl $^\circ$, F $^\circ$, NO $^\circ$, SO $_4$ 2 $^\circ$, citate, oxalate, tartrate,
- < 500 mg/L Ca²",
- < 250 mg/L Pb²",
- < 50 mg/L Cu²",
- < 25 mg/L Fe³",
- < 5 mg/L Fe²",
- < 2 mg/L NO,°.

Conversion factors: 1.0 mg PO $^{3\circ}$ = 0.75 mg P $_{c}$ O $^{\circ}$ = 0.33 mg P $_{c}$

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 $^{\circ}$ C).

If correctly stored, the test strips may be used until the use-by-date printed on the packaging.

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