

## Pack content:

1 aluminum container with 100 test strips  
 1 bottle PO<sub>4</sub><sup>3-</sup>-1 1 measuring vessel with 5 mL mark  
 1 bottle PO<sub>4</sub><sup>3-</sup>-2 1 test tube

## Measuring range:

3–100 mg/L PO<sub>4</sub><sup>3-</sup>

## Color gradation:

0 · 3 · 10 · 25 · 50 · 100 mg/L PO<sub>4</sub><sup>3-</sup>

## Safety precautions:

PO<sub>4</sub><sup>3-</sup>-1 contains nitric acid 5–20% CAS 7697-37-2. DANGER Causes severe skin burns and eye damage. Do not breathe vapors. Wear protective gloves/eye protection. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

## 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 PO<sub>4</sub><sup>3-</sup>-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 PO<sub>4</sub><sup>3-</sup>-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<sub>2</sub>) 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<sup>2-</sup>) 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<sup>+</sup>, Al<sup>3+</sup>, Cd<sup>2+</sup>, Co<sup>2+</sup>, Cr<sup>3+</sup>, Mg<sup>2+</sup>, Mn<sup>2+</sup>, NH<sub>4</sub><sup>+</sup>, Ni<sup>2+</sup>, Zn<sup>2+</sup>, Cl<sup>-</sup>, F<sup>-</sup>, NO<sub>3</sub><sup>-</sup>, SO<sub>4</sub><sup>2-</sup>, citrate, oxalate, tartrate, < 500 mg/L Ca<sup>2+</sup>, < 250 mg/L Pb<sup>2+</sup>, < 50 mg/L Cu<sup>2+</sup>, < 25 mg/L Fe<sup>3+</sup>, < 5 mg/L Fe<sup>2+</sup>, < 2 mg/L NO<sub>2</sub><sup>-</sup>.

Conversion factors: 1,0 mg PO<sub>4</sub><sup>3-</sup> = 0,75 mg P<sub>2</sub>O<sub>5</sub> = 0,33 mg P.

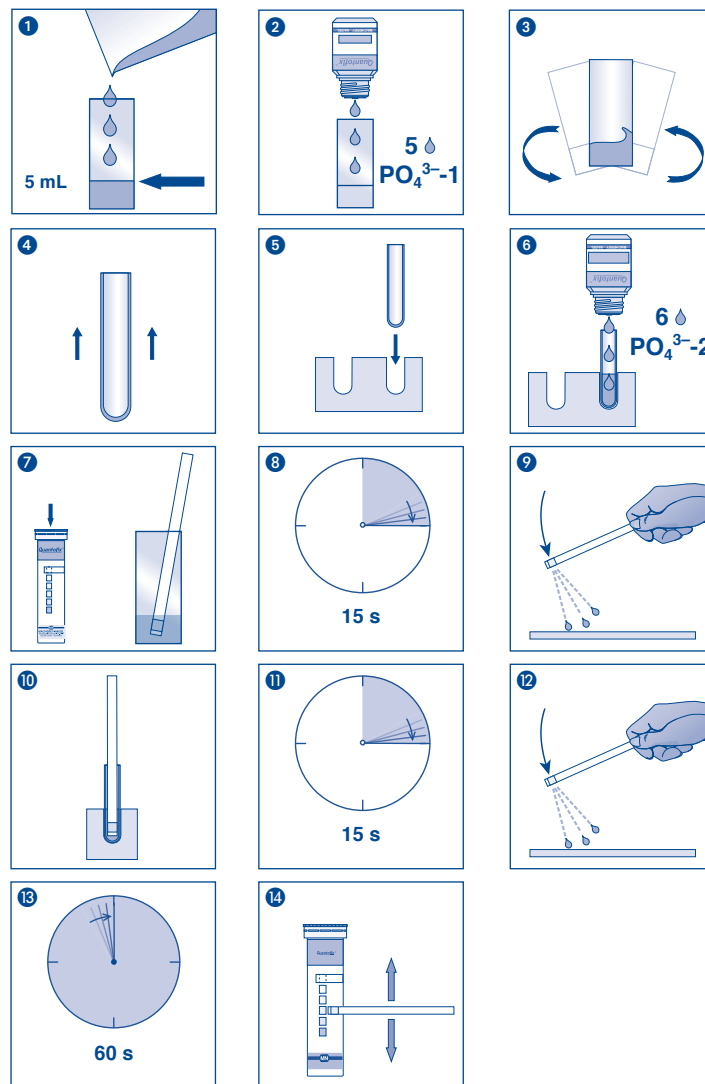
## Disposal:

The used analysis specimens can be flushed down the drain with tap water and channeled off to the local sewage treatment works. Used test strips can be disposed in household waste.

## Storage:

Avoid exposing the strips to sunlight and moisture. Keep container cool and dry (storage temperature not above +30 °C).

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



	Haltbarkeitsdatum / Use by / A utiliser jusqu'à / Fecha de vencimiento / Houdbaarheidsdatum / Data di scadenza / Data ważności		Chargenbezeichnung / Lot number / Numéro de lot / Número de lote / Lotnummer / No del lotto / Oznaczenie szarży
	Artikelnummer / Catalog number / Référence / Art. nro. / Referentienummer / Codice articolo / Numer artykułu		Packungsinhalt / Package content / Contenu de la boîte / Contenido del envase / Verpakkinginhoud / Contenuto della confezione / Zawartość opakowania
	Packung geschlossen halten / Keep container closed / Refermer la boîte / Mantenga el envase cerrado / Verpakking gesloten houden / Conservare la confezione chiusa / Przechowywać pojemnik szczelnie zamknięty		Vor Feuchtigkeit schützen / Protect from humidity / Protéger de l'humidité / Protéjase de la humedad / Beschermen tegen vocht / Proteggere dall'umidità / Chronić przed wilgocią
	Lagertemperatur / Storage temperature / Température de stockage / Temperatura de almacenaje / Bewaartemperatuur / Temperatura di magazzino / Temperatura przechowywania		Packungsbeilage lesen / Please read instructions / Lire les instructions, svp / Obsérvense las instrucciones de uso / Lees de bijsluiter / Leggere il foglio informativo / Należy przeczytać ulotkę informacyjną
	Sicherheitshinweise in der Packungsbeilage beachten / Observe the safety precautions in instructions / Respecter les précautions de sécurité des instructions / Obsérvense las indicaciones de seguridad / Neem de veiligheidsrichtlijnen in de bijsluiter in acht / Seguire le avvertenze di sicurezza / Należy przestrzegać uwag zawartych w ulotce informacyjnej		