

After the reaction time, compare the color of the tube with the standard colors. The nearest color indicates the measured value of the sample. A color between two standard colors indicates a value between the two standard values.

Care in handling of PACKTEST before and after use

Keep PACKTEST in a cool, dry and dark place.

PACKTEST should be thrown with burnable garbage. Conform to the legislation of waste management. Use a package as soon as possible after opening.

First Aid Measures

K-1 reagent contains diluted sulfuric acid (pH<2). It is harmful and corrosive.

Eye contact \longrightarrow Immediately rinse eyes with water for at least 15 minutes. Consult a physician.

Skin contact \longrightarrow Immediately flush skin with water.

Ingestion \longrightarrow Immediately rinse mouth. Consult a physician.

In case of doubt, consult a physician.



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PACKTEST Phosphate (High Range)

Features

The Phosphate PACKTEST is based on the molybdenu blue color comparison method. The Phosphate (High Range) PACKTEST allows to measure phosphate concentration easily of sample like septic tank, waste water or water culture medium, in the range 2 - 100 mg/L. For lower concentration, ex: environmental water samples, we recommend to use either the Phosphate PACKTEST (ref: WAK-PO4, 0.2 - 10 mg PO4³⁻ /L) or the Phosphate (Low Range) PACKTEST (ref: WAK-PO4(D), 0.05 - 2 mg PO4³⁻ /L).

Cautions

- 1. The Phosphate (High Range) PACKTEST can only measure dissolved ions. Condensed phosphorus or Total-phosphorus can not be measured. A pretreatment is required for the measurement of these parameters.
- 2. The Phosphate (High Range) PACKTEST can measure both phosphate ion (PO4³⁻) and phosphate-phosphorus (PO4³⁻-P)
- 3. The normal pH range is 1 10. If necessary, adjust the pH with diluted sulfuric acid or sodium hydroxide solution.
- 4. Ensure that PACKTEST tube is filled up to the half.
- 5. Partially undissolved reagent will not affect the measurement.
- 6. Keep sample temperature in the range 15°C 40°C. Lower temperature necessitates longer reaction time.
- 7. Read the test under daylight type lamp.
- 8. Carefully rince the small pipette after use.
- 9. Put the line back into the aperture after use to prevent reagent spilt.

Interferences

Standard colors were determined from standard solutions. However, coexisting substances will cause inaccurate results. The list below reports ion concentrations under which ones interferences are insignificant:

 \leq 5000 mg/L : Al³⁺, B³⁺, Ba²⁺, Ca²⁺, Cd²⁺, Cl⁻, CN⁻, Fe²⁺, I⁻, K⁺, Mn²⁺, Mo⁶⁺, Na⁺, NH₄⁺, NO₂⁻, NO₃⁻, Sn²⁺, SO₄⁻²⁻, Zn²⁺, Phenol, Residual Chlorine \leq 2500 mg/L : Cu²⁺, Ni²⁺ \leq 1250 mg/L : Co²⁺, Mg²⁺ \leq 500 mg/L : Cr³⁺, Fe³⁺, Pb²⁺, SiO₂ \leq 100 mg/L : Cr⁶⁺, F⁻ Sub-ppm level : As³⁺, As⁵⁺

The Phosphate (High Range) PACKTEST is not suitable for sea water samples. Oxidative chemical can interfere with the measurement.