KYORITSU **PACK TEST** ION SELECTIVE **INSTRUCTIONS**

Phenol

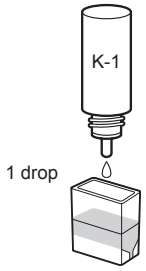
Model WAK- PNL

Harmful

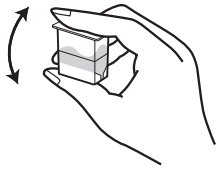
4-aminoantipyrine color comparison Method with Enzyme
Main reagents Enzyme and 4-amino antipyrine

Range: C_6H_5OH 0-10 mg/L (ppm)

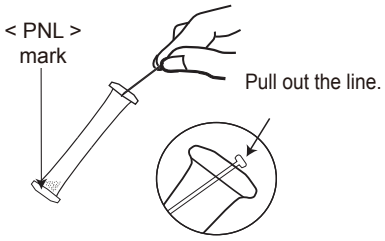
How to use



(1) Fill the Cell (PACKTEST Square Cup) up to the first line (1.5 ml) with sample. Add 1 drop (~0.04mL) of K-1 reagent.



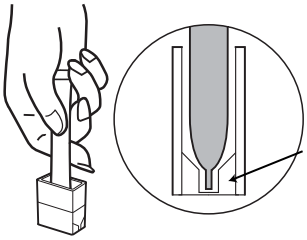
(2) Put on the cap and shake the Cell 2-3 times.



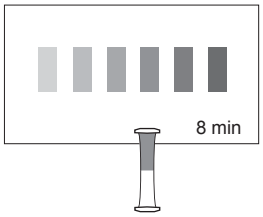
(3) Remove the line to clear the aperture from the top of the tube.

(4) Press the sides of the tube to expel approximately half of volume. Maintain pressed.

(5) Immerse the tube in the sample. Release the sides to fill the tube up to the half. Shake the tube lightly a few times.



(6) After 8 minutes, put the tube on the color chart as shown and compare with the standard colors.



How to read the test

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 out of the reach of children.
Keep PACKTEST in a cool, dry and dark place. Especially, PACKTEST should be avoided from high temperature and high humidity.
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 hydrogen peroxide. It is harmful to eyes and skin.

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

Skin contact → Immediately flush skin with water.

Ingestion → Immediately rinse mouth. Consult a physician.

In case of doubt, consult a physician.

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PACKTEST Phenol

Features

The Phenol PACKTEST uses the 4-amino antipyrine color comparison method.
Since enzymes are used as a sub-reagent, various types of Phenol compounds can be measured safely.

Cautions

1. The Phenol PACKTEST can measure only Phenol compounds. *p*-cresol compounds can not be measured.
2. The normal pH range is 5 -10. If necessary, adjust the pH with diluted sulfuric acid or sodium hydroxide solution.
3. Keep sample temperature in the range 15 - 40°C, higher temperature implies shorter reaction time. 25°C … 3 min. 30 - 40°C … 2 min.
4. Ensure that PACKTEST tube is filled up to the half.
5. Partially undissolved reagent will not affect the measurement.
6. Read the test under daylight type lamp
7. Put back the line into the aperture after using to prevent reagent spilt.

Interferences

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

≤ 1000mg/L : B^{3+}, Ba^{2+}, Cd^{2+}, Cl^{-}, F^{-}, I^{-}, K^{+}, Mg^{2+}, Na^{+}, NH_4^{+}, NO_2^{-}, NO_3^{-}, SO_4^{2-}, Zn^{2+}
≤ 500mg/L : Ca^{2+}, SCN^{-} , Anionic surfactant
≤ 200mg/L : As^{3+}, Mo^{6+}, PO_4^{3-}
≤ 50mg/L : Ag^{+}, Fe^{3+}, Ni^{2+}, Residual Chlorine
≤ 20mg/L : Co^{2+}, Cr^{3+}, Cu^{2+}, Mn^{2+}
≤ 10mg/L : Cr^{6+}, Pb^{2+}
≤ 5mg/L : CN^{-}
≤ 1mg/L : Al^{3+}, Fe^{2+}

The Phenol PACKTEST is suitable for sea water samples.
Oxidative and reductive chemical, aromatic amines, petroleum, tar can interfere with the measurement.