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

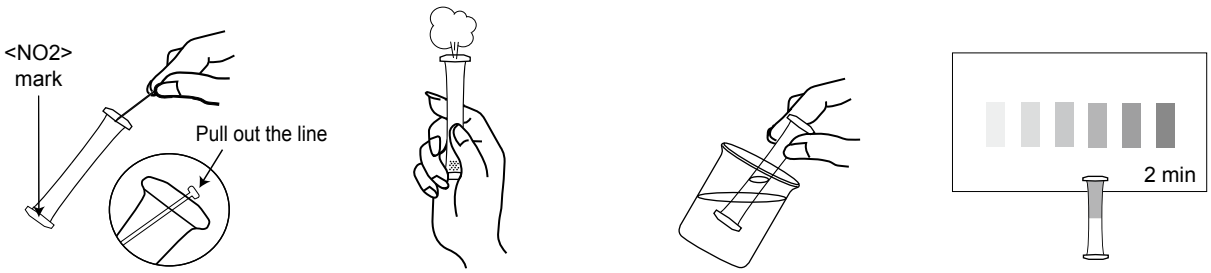
Nitrite
<Nitrite nitrogen>

Model WAK-NO_2

Naphthylethylenediamine color comparison Method
Main reagent: Naphthylethylenediamine

Range: 0.02 - 1 mg NO_2^-/L (ppm)
0.005 - 0.5 mg NO_2^- - N/L (ppm)

How to use



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

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

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

(4) After 2 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.
According to your need, the nitrite-nitrogen concentration can be determined on the back of the color chart.

Care in handling of Pack Test before and after use

Keep PACK TEST out of the reach of children.
Keep PACK TEST in a cool, dry and dark place.
PACK TEST should be thrown with burnable garbage. Conform to the legislation of waste management.
Use a package as soon as possible after opening.
The PACK TEST tube must not be opened before and after use.

First Aid Measures

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

Ingestion → Drink a large glass of milk or water and vomit.

Skin contact → Flush skin with water.

In case of doubt, consult a physician.

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PACK TEST Nitrite

Features

The Nitrite PACK TEST is based on the naphthylethylenediamine color comparison method. This PACK TEST is suitable to measure nitrite ion (NO_2^-) concentration in various samples like industrial or waste waters.
For high nitrite concentrations, we recommend to use the nitrite PACK TEST (High range), ref: WAK-NO_2^-(C), (range: 16 - 660 mg NO_2^- /L).

Cautions

1. The Nitrite PACK TEST allows to measure both nitrite (NO_2^-) and nitrite-nitrogen (NO_2^--N) ions.
2. For the measurement of nitrogen dioxide in the atmosphere, adjust the absorption sample pH≤ 7.
3. The normal pH range is 2 - 9. If necessary, adjust the pH with diluted sulfuric acid or sodium hydroxide solution.
4. Ensure that PACK TEST 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 a daylight type lamp.
8. Put the line back into the aperture after use to prevent reagent spilt.

Interferences

Standard colors were determined from standard solutions. However, coexisting ions can modify reaction color. The list below reports ion concentrations under which ones interferences are insignificant:

≤ 1000 mg/L : B^{3+}, Ba^{2+}, Ca^{2+}, Cd^{2+}, Cl^-, F^-, I^-, K^+, Mg^{2+}, Mn^{2+}, Na^+, NH_4^+, NO_3^-, PO_4^{3-}, Sn^{2+}, SO_4^{2-}, Phenol
≤ 250 mg/L : CN^-, Cr^{3+}, Ni^{2+}, Pb^{2+}, Zn^{2+}
≤ 100 mg/L : Co^{2+}, Mo^{6+}
≤ 50 mg/L : Cu^{2+}
≤ 25 mg/L : Al^{3+}
≤ 10 mg/L : Fe^{2+}
≤ 3 mg/L : Fe^{3+}
sub-ppm level: Cr^{6+}, V^{5+}, Residual chlorine

The Nitrite PACK TEST is suitable for sea water samlpes.