



KYORITSU

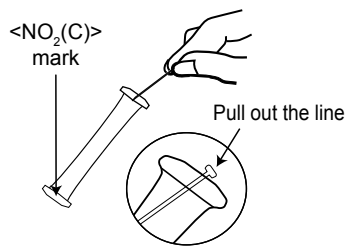
PACK TEST
ION SELECTIVE

INSTRUCTIONS

Nitrite(High range)
<Nitrite-Nitrogen>Model WAK-NO₂(C)

Griess Romijin Comparison Method

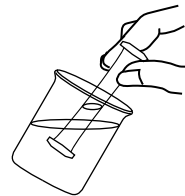
Main reagent: Sulfanilic acid

Range: 16 - 660 mg NO₂⁻/L(ppm)
5 - 200 and more mg NO₂⁻-N/L (ppm)**How to use**

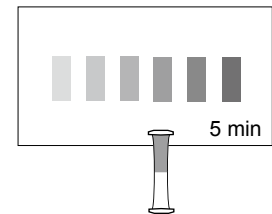
(1) Remove the line to clear the aperture from the top of the tube.



(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 5 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.

PACKTEST should be thrown with burnable garbage. Conform to the legislation of waste management.

Use a package as soon as possible after opening.

The PACKTEST 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 → Immediately rinse mouth. Consult a physician.

Skin contact → Immediately flush skin with water.

In case of doubt, consult a physician.

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PACKTEST Nitrite (High range)

Features

The Nitrite (High range) PACKTEST is based on the Naphthyl-ethylene-diamine color comparison. This PACKTEST is suitable to measure Nitrite ion (NO_2^-) concentration in various samples like industrial or waste waters. For low nitrite concentration, we recommend to use the Nitrite PACKTEST, ref: WAK-NO₂, (range: 0.02 - 1 mg NO_2^-/L).

Cautions

1. The Nitrite (High range) PACKTEST allows to measure both Nitrite (NO_2^-) and Nitrite-nitrogen (NO_2^- -N) ions.
2. The normal pH range is 2 - 9. If necessary, adjust the pH with diluted sulfuric acid or sodium hydroxide solution.
3. Ensure that PACKTEST tube is filled up to the half.
4. After the tube was filled, shake it without delay. A late mixing could modify the final color.
5. To allow an easier reading, remove the air bubbles adhering to the polyethylene wall with a soft tilt of the tube.
6. Partially undissolved reagent will not affect the measurement.
7. Keep sample temperature in the range 20°C - 40°C. Lower temperature necessitates longer reaction time. Reaction time take 15 minutes at 15°C; 30 minutes at 10°C.
8. Read the test under a daylight type lamp.
9. 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^+ , Ni^{2+} , NO_3^- , PO_4^{3-} , SO_3^{2-} , SO_4^{2-} , Zn^{2+} , Phenol
≤ 500 mg/L	: CN^- , Co^{2+} , Pb^{2+} , Surfactant
≤ 250 mg/L	: Al^{3+} , Cr^{3+} , SCN^-
≤ 50 mg/L	: Cu^{2+} , Residual chlorine
≤ 20 mg/L	: As^{3+} ,
≤ 10 mg/L	: NO_2^-
≤ 10 mg/L	: Ag^+ , Fe^{2+} , Fe^{3+}
sub-ppm level	: Cr^{6+} , Pd^{2+}

The Nitrite (High range) PACKTEST is suitable for sea water samples but reaction time must be extended up to 10 - 20 minutes.