



KYORITSU

PACKTEST
ION SELECTIVE

INSTRUCTIONS

Sulfite (High range)

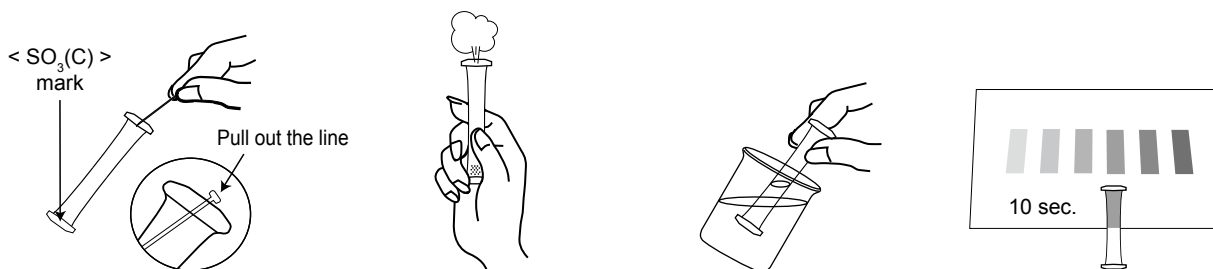
Model WAK-SO₃(C)

Iode color comparison Method

Main reagent : Iode

Range: 50 - 2000 mg SO₃²⁻/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 10 seconds, 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.

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 Sulfite (High range)

Cautions

1. The Sulfite (High Range) PACKTEST is based on the Iode coloration method. It is suitable for water samples of reduction treatment process.
2. Sulfite ions are quickly oxidized in contact with air.
3. The test result must be read between 10 sec. and 1 min. Beyond, the color turns to dark.
4. The pH must be less than 9. If necessary, adjust the pH with diluted sulfuric acid up to neutrality.
5. Ensure that PACKTEST tube is filled up to the half.
6. Partially undissolved reagent will not affect the measurement.
7. Keep sample temperature in the range 15°C - 30°C. Lower temperature necessitates longer reaction time.
8. Read the test under a daylight type lamp.
9. Put the line back into the aperture after use to prevent reagent spill.

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:

≤ 1000 mg/L : Al^{3+} , Ca^{2+} , Cl^- , K^+ , Mg^{2+} , Na^+ , NH_4^+ , Ni^{2+} , NO_3^- , PO_4^{3-} , SO_4^{2-} , Formaldehyde, Anionic surfactant.

≤ 100 mg/L : Cu^{2+} , Zn^{2+}

≤ 20 mg/L : NO_2^-

≤ 10 mg/L : Fe^{2+} , Fe^{3+}

The Sulfite (High Range) PACKTEST is suitable for sea water samples.

Oxidative and reductive chemical can interfere.

If the sample contains a starch, reaction color is purple or black.

Reduction Chemical ··· reaction color becomes stronger.

Oxidation Chemical ··· it becomes colorless.