

**RAKIRO BIOTECH SYSTEMS PVT LTD**

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Doc No : PDAE207**Date :** 01-02-2024**Type :** AQUASOL**Product Code:** AE207**PRODUCT DATA SHEET****1 INFORMATION**

CODE: AE207

PARAMETER: NITRITE

RANGE: 50- 1000 mg/l as NO₂**2 METHOD**

Nitrite is oxidized by the ceric sulfate titrant. Ferroin indicator indicate the endpoint of the titration. Results are expressed as ppm (mg/L) Nitrite as NO₂.

3 APPLICATION

Drinking Water, Mineral Water, Well Water, Swimming Pool Water, Surface and Ground Water, Aquaculture, Boiler Water, Process Water, Industrial Wastewater, Effluent Water, Cooling System Water, Chiller Water etc

4 INTERFERENCE

Sample constituents that are oxidized by ceric sulfate, including hydrogen peroxide and ferrous iron, will interfere positively with this test. Chromate interferes by masking the endpoint. Ethylene glycol, even at percent levels, does not interfere

5 METHOD CONTROL

To Check test reagents,

Prepare 1000 ppm Nitrite as NO₂ standard :- Take 1.5 gm of sodium nitrite in 1000ml standard volumetric flask, dilute it with demineralised water up to 1000ml stir well, and analyse as described in procedure.

6 REAGENTS AND ACCESSORIES

Reagents: NTH1(1Nos), NTH2(2Nos)

Accessories: 25ML Plastic Test Jar(1Nos), Procedure Label(1Nos), Syringe(1 nos)

7 STORAGE

The test reagents are stable up to the date stated on the pack when stored closed at ambient temperature

8 REFERENCE

APHA Standard Methods, 22nd ed., Method 4500- NO₂ - B – Standard Methods for Chemical Analysis of Water and Waste water. IS 3025 (Part 34): 1988

9 DIRECTION FOR USE

- 1)Take 1 ml of water sample in the test jar by using syringe and dilute to 10 ml with raw water (preferably distilled or de-mineralized)
- 2)Add 2 drops of NTH 1, mix well..
- 3)Add NTH 2 accurately counting the drops * while mixing until pale blue or bluish green colour appears.

Calculations: - Nitrite ppm as NO₂ = 50 x (Number of drops of NTH2)

Note: AE-207 is recommended only for use in detecting Nitrite residue in closed cooling system where Nitrite has been added. The kit is not applicable to check low level Nitrite or if Nitrite is absent. For very high Nitrite content (above prescribed range) diluted sample to be used for testing.