

**RAKIRO BIOTECH SYSTEMS PVT LTD**

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Doc No : TDSAE318
Date : 01-02-2024
Type : AQUASOL
Product Code: AE318

PRODUCT DATA SHEET**1 INFORMATION**

CODE: AE318

PARAMETER: NITRATE (FRESH WATER)

RANGE: 0 TO 160 ppm as NO₃**2 METHOD**

Method adopted from APHA and IS standard method.

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

None

5 METHOD CONTROL

To Check test reagents,

prepare 1000 ppm Nitrate standard solution - Take 1.37 gm of sodium nitrate in 1000 ml standard volumetric flask, Dilute it with Salt water up to 1000ml, stir well Dilute this standard solution with distilled water to 10.0 mg/l NO₃, and analyse as described in procedure card.

6 REAGENTS AND ACCESSORIES

Reagents: HNT1 (1No), HNT2 (1 No), HNT3 (1 No)

Accessories: 10 ml Test Jar (1 no), 5 ml Comparator tube (2Nos), Procedure Label(1Nos), Colour Comparator, Spoon.

7 STORAGE

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

8 REFERENCEAIS : 3025 (Part 34) - 1988, APHA Standard Methods, 22nd ed., Method 4500-NO₃ Standard Methods for Chemical Analysis of Water and waste water.**9 DIRECTION FOR USE**

- 1)Take 5 ml sample in the comparator tube& transfer it to 10 ml test jar for testing .
- 2)Add 1 spoonful of HNT1 powder to it, mix. Keep standing for 5 minutes, while shaking intermittently.
(Please note that HNT1 powder may not completely dissolved few particles may remains undissolved however ,it will not effect the result)
- 3)To this solution, now add 3 drops of HNT2, mix. Keep standing for 3 minutes, while shaking intermittently.
- 4)Now add 1 spoonful of HNT3, mix. Wait for 5 minutes. Dilute to 10 ml mark with demineralised or nitrate free water.
- 5)Transfer the content in comparator tube.
- 6)Place the comparator tube in the comparator slot.
Read the ppm Nitrate as NO₃ as follows.
 - a)Hold the comparator vertically against the light at eye level.
 - b)Match the colour to the colour shade on the comparator.
 - c)Read the Nitrate value corresponding to the colour