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Doc No : TDSAE308**Date :** 01-02-2024**Type :** AQUASOL**Product Code:** AE308**PRODUCT DATA SHEET****1 INFORMATION**

CODE: AE308

PARAMETER: NITRATE

RANGE: 0.5 - 50 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

Not Known

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: 25 ml Test Jar (1 no), Comparator tube (2Nos), Procedure Label(1Nos), Colour Chart, Spoon.

7 STORAGE

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

8 REFERENCEIS : 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 of water sample to be tested in the test jar.

2)Now add one spoonful of HNT1, shake well. Keep 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 now add three drops of HNT2.Mix well. Keep for three minutes,while shaking intermittently.

4)Now add one spoonful of HNT3. Shake well. Wait for 5 minutes to allow maximum colour development. Dilute to 25 ml mark with DM water.

5)Transfer the content in small comparator tube provided here.

6)Read the ppm Nitrate as follows :

a.Place the comparator tube on the inner white circle, of the colour comparison chart.

b.View from the top of the comparator tube to compare the sample colour and the colour around.

c.Read the ppm NITRATE as NO₃ after arriving at the correct match.

Note: it is necessary to clean the test tube using soap and with the help of brush (provided) it is important that surface of test tube should be clean prior to testing