

**RAKIRO BIOTECH SYSTEMS PVT LTD**

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**Doc No :** PDAE209**Date :** 01-02-2024**Type :** AQUASOL**Product Code:** AE209**PRODUCT DATA SHEET****1 INFORMATION**

CODE: AE209

PARAMETER: SULPHATE

RANGE: 10- 200, 50-1000 mg/l as SO<sub>4</sub>**2 METHOD**

Classic chemical 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 Sulphate standard:- Take 1.479 gm of anhydrous sodium Sulphate in 1000ml standard volumetric flask, Dilute It with Demineralised water up to 1000ml mark, stir well. Dilute this standard solution with distilled water to 100 mg/ISO<sub>4</sub>, and 500 mg/l SO<sub>4</sub> and analyse as described in procedure card.

**6 REAGENTS AND ACCESSORIES**

Reagents: NSP2(1Nos), NSP3(1Nos), NSP4(1 Nos)

Accessories: 10 ml Test Jar(1Nos), Procedure Label(1Nos), Syringe, Plastic spoon.

**7 STORAGE**

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

**8 REFERENCE**

Classic chemical method.

**9 Directions for Use:**

1. Take 2 ml sample in Test jar with the help of syringe (provided herewith)
2. Dilute with Alcohol (Ethanol/Methanol/Isopropanol) (AR/GR) up to the 10 ml mark.  
Mix well.  
(Note: Since the Alcohol is inflammable in nature, it is not provided with the test kit)
3. Add one spoonful of NSP2. Mix well.
4. Now drop wise add NSP3 counting the number of drops while mixing until the yellow colour change to saffron red.

If the expected Sulphate content of the sample is more than 200 ppm, then use NSP 4 instead of NSP 3.

Calculations:

Sulphate as ppm SO<sub>4</sub> = 10 x (No. of drops of NSP 3)Sulphate as ppm SO<sub>4</sub> = 50 x (No. of drops of NSP 4)