

**RAKIRO BIOTECH SYSTEMS PVT LTD**

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Doc No : PDAE209**Date :** 01-02-2025**Brand :** AQUASOL**Product Code:** AE209

PRODUCT DATA SHEET

1 INFORMATION

Code - AE209

Name - Sulphate Test Kit

Range - 10 - 200 & 5 - 1000 PPM (Mg/L)

No of Tests - 350

Shelf Life - 12 Months

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 CONTROLTo 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/ISO4l, and 500 mg/l SO₄ 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/Isopopropanol) (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 SO₄ = 10 x (No. of drops of NSP 3)Sulphate as ppm SO₄ = 50 x (No. of drops of NSP 4)