

**RAKIRO BIOTECH SYSTEMS PVT LTD**

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Doc No : PDAE210

Date : 01-02-2025

Brand : AQUASOL

Product Code: AE210

PRODUCT DATA SHEET**1 INFORMATION**

Code - AE210

Name - Fluoride Test Kit

Range - 0.1 - 2.0 & 1 - 20 PPM (Mg/L)

No of Tests - 500

Shelf Life - 24 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

None

5 METHOD CONTROL

To Check test reagents, Prepare 1000 mg/l Chloride standard - Take 2.21 Gms of sodium Fluoride in 1000ml standard volumetric flask, Dilute it with Demineralised water up to 1000ml mark, stir well. Dilute this standard solution with distilled water to 10 mg/l F, and analyse as described in procedure card.

6 REAGENTS AND ACCESSORIES

Reagents: FD1(1NOS), FD2A(1NOS), FD2B(1NOS), FD3(1NOS), FD4L(1NOS), FD6(1NOS).

Accessories: 10 ml Test Jar(1Nos), Procedure Label(1Nos)

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 DIRECTION FOR USE

1. Take 10 ml of filtered water sample in the test jar, provided
2. Add 1 drops of FD1. Mix well. If a yellow colour does not appear, then add FD2a dropwise* till you get yellow colour.
3. Now Add FD 2b till the solution becomes colourless. Add 5 drops more of FD 2b.
4. Add 1 spoonful of FD 3, mix well to dissolve.
5. Now drop wise add FD 4L, counting the number of drops while mixing until the colour changes from yellow to the first distinct pink colour.
6. Observe this colour change against a white background held below the test jar.

If the expected Fluoride of the test sample is more than 2 ppm, then use FD6 instead of FD4L

Calculations: Fluoride ppm as F = $0.1 \times (\text{No. of drops of FD 4L})$
= $1.0 \times (\text{No. of drops of FD 6})$