

**RAKIRO BIOTECH SYSTEMS PVT LTD**

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Doc No : PDAEDO8**Date :** 01-02-2024**Type :** AQUASOL**Product Code:** AEDO8**PRODUCT DATA SHEET****1 INFORMATION**

CODE: AEDO8

PARAMETER: DISSOLVED OXYGEN

RANGE: 0.5 – 8 ppm

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

6 REAGENTS AND ACCESSORIES

Reagents: DO1(1Nos), DO2(1Nos), DO3(1Nos), DO4(1 No), DO5(1 No).

Accessories: 25 ml Test Jar(1Nos), Procedure Label(1Nos), DO bottle.

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

D.O Fixing: - The dissolved Oxygen requires to be fixed before testing.

1. Rinse the D.O test bottle 2 – 3 times with sample water. Fill it till it overflows with the sample water and then stopper the bottle and ensure that no air bubbles are trapped inside.

2. Now add 10 drops of D.O. 1 followed by 10 drops of D.O 2. Mix well. Wait for a minute.

A brown precipitate will be formed and will start settling. Firmly stopper the bottle and shake the contents thoroughly. Keep the bottle in a safe place for a minimum of 20 minutes.

3. Now add 10-12 drops of D.O.3. Replace the stopper and shake the bottle till the precipitate dissolves. And more drops if required to dissolve.

4. Now this sample is used for testing.

D.O. Determination:-

1. Take 10 ml of sample (from step 3 of D.O fixing) in the test jar.

2. Add 4 drops of D.O 4. Mix well.

3. Now drop wise*add D.O.5, counting the number of drops while mixing, until the blue colour disappears.

Calculations:-

Dissolved Oxygen ppm as O₂ = 0.5 X (No. of drops of D.O 5)