

**RAKIRO BIOTECH SYSTEMS PVT LTD**

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Doc No : TDSAPCODV1**Date :** 01-02-2024**Type :** AQUASOL**Product Code:** APCODV1**PRODUCT DATA SHEET****1 INFORMATION**

CODE: APCODV1

PARAMETER: Chemical Oxygen Demand

RANGE: - 0 - 150 ppm as O₂**2 METHOD**

The water sample is oxidized with a hot sulfuric solution of potassium dichromate, with silver sulfate as the catalyst. Chloride is masked with mercury sulfate. The concentration of unconsumed Cr₂O₇²⁻ ions is then determined photometrically. Results are expressed as mg/l COD (mg/l O₂)

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

Straight-chain aliphatic compounds, aromatic hydrocarbon fatty acids, chlorides, nitrites and iron are the main interfering radicals.

5 REAGENTS AND ACCESSORIES

Reagents: 25 Nos Vials filled with reagent.

Accessories: Plastic Syringe 1 ml (5nos) , Procedure Label(1Nos).

6 STORAGE

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

7 REFERENCE

IS 3025 (Part 58) :2006 Indian Standard

8 DIRECTION FOR USE

- 1.Take a Vial, Open the cap and add 2 ml of Demineralized Water by using syringe (COD Free). Mark the vial as Blank
- 2.Take another Vial Open the cap and add 2 ml of test sample by using syringe. Mark the vial as Sample
- 3.Close caps of both the vials tightly and swirl the contents for 10-15 sec.
- 4.Now digest both the tubes in COD Digester, at 150 Deg C for 2 Hours. (Refer APCODG1 Manual)
- 5.After Digestion, swirl the vial and cool the vials naturally to room temp for 15-20 mins.
- 6.Read the COD Value using COD Meter/Analyzer. (Refer APCOD01 Manual)