

**RAKIRO BIOTECH SYSTEMS PVT LTD**

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**Doc No :** TDSAPCODV2**Date :** 01-02-2025**Brand :** AQUASOL**Product Code:** APCODV2

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**PRODUCT DATA SHEET**

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**1 INFORMATION**

Code - APCODV2

Name - Chemical Oxygen Demand (COD) Test Vials

RANGE: - 0 - 1500 ppm as O<sub>2</sub>

No of Vial - 25

Shelf Life - 36 Months

**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 Cr<sub>2</sub>O<sub>7</sub><sup>2-</sup> ions is then determined photometrically. Results are expressed as mg/l COD ( mg/l O<sub>2</sub>)

**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)