

### **RAKIRO BIOTECH SYSTEMS PVT LTD**

R-466, TTC Industrial Area, MIDC Rabale, Navi Mumbai - 400701 Tel No. +91-022-47804040 Email :- sales@rakiro.net 
 Doc No :
 TDSAPCODV3

 Date :
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Type: AQUASOL
Product Code: APCODV3

# **PRODUCT DATA SHEET**

#### 1 INFORMATION

CODE: APCODV3 PARAMETER: Chemical Oxygen Demand RANGE: - 0 - 15000 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 Cr2O7 2- ions is then determined photometrically. Results are expressed as mg/I COD ( mg/I 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 Vails 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 0.2 ml of Demineralized Water by using syringe (COD Free). Mark the vial as Blank
- 2. Take another Vial Open the cap and add 0.2 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)