

**RAKIRO BIOTECH SYSTEMS PVT LTD**

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Doc No : PDAE213L

Date : 01-02-2025

Brand : AQUASOL

Product Code: AE213L

PRODUCT DATA SHEET**1 INFORMATION**

Code - AE213L

Name - Chloride Test Kit

Range - 1 - 20 PPM (Mg/L)

No of Tests - 300

Shelf Life - 24 Months

2 METHOD

In an acidic solution, Diphenylcarbazone indicate the end point of titration of chloride. the endpoint indicator, forms a purple complex with excess mercuric ions. Results are expressed as ppm (mg/L) Cl.

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

Bromide and iodide are titrated along with chloride causing a false positive result.
Chromate, Ferric and Sulphite ions interfere when present in excess of 10 mg/ l.

5 METHOD CONTROL

To Check test reagents,

Prepare 1000 mg/l Chloride standard- Dissolve 1.648 gm sodium chloride (dried at 140 deg. C) in distilled water & dilute to 1000 ml. Dilute this standard solution with distilled water to 10 mg/l Cl, and analyse as described in procedure card.

6 REAGENTS AND ACCESSORIES

Reagents: CD1(1Nos), CD2(1Nos), CD3L1(2Nos)

Accessories: Test Jar(1Nos), Plastic Spoon(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

APHA Standard Methods, 22nd ed., Method 3500-Cl- C – Standard Methods for Chemical Analysis of Water and Waste water.
GOLDMAN, E. 1959 (New indicator for the mercurimetric chloride determination in potable water.)

9 DIRECTION FOR USE

1. Take 10 ml of water sample to be tested in the test jar.
2. Add one spoonful (provided herewith) of CD 1.
3. Mix well to dissolve.
4. Then add CD 2 drop by drop till the sample turns yellow.
5. Now drop wise* add CD 3L - 1 #, counting the number of drops while mixing, until the colour changes from yellow to bluish violet.

Calculation:

Chloride as ppm Cl = 1 X [Number of Drops of CD 3L- 1]