

**RAKIRO BIOTECH SYSTEMS PVT LTD**

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Doc No : TDSAE410**Date :** 01-02-2024**Type :** AQUASOL**Product Code:** AE410**PRODUCT DATA SHEET****1 INFORMATION**

CODE: AE410

PARAMETER: MANGANESE

RANGE: - 0.025 - 0.4 ppm as Mn

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

5 METHOD CONTROL

To Check test reagents,

Preparation of 100 ppm Manganese standard solution: Weigh 308 mg of manganese sulphate($MnSO_4 \cdot H_2O$) and transfer in to the 1-liter Standard volumetric flask. Dilute it to 1000ml with demineralized water.**6 REAGENTS AND ACCESSORIES**

Reagents: MN1 (1No), MN2 (1No), MN3(1No), MN4 (1No), MN5(1 No)

Accessories: 25 ml Plastic Test jar , Comparator tube(2No.) , 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

Classic chemical method.

9 DIRECTION FOR USE

1. Take 10 ml of water sample to be tested in the test jar.
2. Add 6 drops of Mn1, Mix well.
3. Add 12 drops of Mn2, Mix well.
4. Add in a rapid succession 6 drops of Mn3.
5. Add 12 drops of Mn4, and mix the content thoroughly. Wait for 10 minutes.
6. Now add 15 drops of Mn5, and mix the content thoroughly. wait for 90 minutes.
7. Transfer the content in small comparator tube provided here.
8. Read the ppm manganese as follows:
 - a) Place the comparator tube on the inner white circle, of the colour comparison chart.
 - b) View from the top of the comparator tube to compare the sample colour and the colour around.
 - c) Read the ppm MANGANESE as Mn after arriving at the correct match.