

ORLAB

Water Test Kit for Fluoride

Using BARC Technology



Water is contact with natural deposits of fluoride such as flourspar, calcium fluoride and Criolite and waters contaminated by effluents from glass and aluminum manufacturing industries are found to contain excess fluoride. In India alone about 30 million people are suffering from fluorosis. Presence of large amounts of fluoride (>1.5 mg/L) is associated with dental and skeletal fluorosis and less amounts (<1.0 mg/L) with dental cavities.

Maximum permissible range for fluoride in drinking water is 1.5 mg/L

Kit Contents:

- | | |
|-------------------------|-------|
| 1. Fluoride Reagent | 75ml |
| 2. Fluoride Color Chart | 1 No. |
| 3. Test Tube with Cork | 1 No. |
| 4. Plastic Beaker | 1 No. |

Precautions:

- Store in cool and dry place
- Dispose according to local environment regulation after testing is completed, decant liquid from the test tube and rinse it with water
- Not for oral consumption and keep away from Children

Summary of the method:

The field test kit is based on bleaching of Zirconium Xylenol orange complex depending on fluoride on fluoride content in water i.e., fluoride ions break the Zirconyl Xylenol orange complex to form colouriess Zirconium fluoride

Sample Testing Procedure for Fluoride:

1. Fluoride color chart has been provided to measure fluoride content of water.
2. Take water sample upto the 4 ml mark in test tube with the help of 50 ml plastic beaker.
3. Add 15 drops of fluoride reagent to the same test tube.
4. Replace the cork tightly.
5. Invert gently several times to mix the content to develop color.
6. Place the test tube on the fluoride color chart.
7. Record the fluoride value in mg/L.
8. Range: 0.00 – 3.0 mg/L as F.

Keeping Age: 1 Year

Test / Kit : 100 Tests/Kit

Distributor:

Global Complex Co., Ltd.

712 Happyland Sai 1 Rd., Klongchan, Bangkok, Bangkok 10240 Thailand

Tel: (662) 3752455-58 Fax: (662) 3752499 E-Mail: foodsafetykit@gmail.com

website: www.gccthai.com