SALINITY KIT

DIRECT READING TITRATOR, 0-5 ppt, 0-20 ppt

CODE 7459-02

QUANTITY	CONTENTS	CODE
15 mL	*Salinity Indicator Reagent A	*7460-E
2 x 30 mL	*Salinity Titration Reagent B	*7461DR-G
1	Demineralizer Bottle	1151
1	Test Tube, 5-10-15 mL, w/cap	0778
1	Direct Reading Titrator, 0-20 Range	0378
1	Direct Reading Titrator, 0-1.0 Range	0376

*WARNING: Reagents marked with an * are considered to be potential health hazards. To view or print a Material Safety Data Sheet (MSDS) for these reagents go to www.lamotte.com. To obtain a printed copy, contact LaMotte by e-mail, phone or fax.

To order individual reagents or test kit components, use the specified code number.

NOTE: The Demineralizer Bottle may not remove all of the chloride ions from tap water. Tap water from water softener systems may contain abnormally high amounts of chloride. This may result in high salinity test results. Perform a salinity test on the Demineralizer Bottle water ONLY to determine the contribution by the tap water to the salinity test result.

WARNING! This set contains chemicals that may be harmful if misused. Read cautions on individual containers carefully. Not to be used by children except under adult supervision.

PROCEDURE

0-20 ppt SALINITY

1. Fill test tube (0778) to 10 mL line with demineralized water from the Demineralizer Bottle (1151).
2. Fill the 0 - 1.0 Direct Reading Titrator (0376) to 0 line with sample water. Wipe any excess water off the Titrator.
3. Dispense 0.5 mL of sample water into titration tube by depressing plunger until tip is at 0.5 line. Discard remaining water in Titrator.
4. Add 3 drops of *Salinity Indicator Reagent A (7460). Cap and gently swirl to mix. Solution will turn yellow.
5. Fill the 0-20 Direct Reading Titrator (0378) with *Salinity Titration Reagent B (7461DR). Insert Titrator into hole of cap.

6. While gently swirling sample, slowly depress the plunger until color changes from yellow to pink-brown. Read test result where the large ring on the Titrator meets the Titrator barrel . Record as ppt Salinity.
7. If Titrator becomes empty before color change occurs, refill and continue titrating. Add original amount (20 ppt) to final result.

   NOTE: Each minor division = 0.4 ppt Salinity

0-5 ppt SALINITY

8. Fill test tube (0778) to 10 mL line with demineralized water from the Demineralizer Bottle (1151).
9. Fill the 0 - 1.0 Direct Reading Titrator (0376) to 0 line with sample water. Wipe any excess water off the Titrator.
10. Dispense the entire 1.0 mL into the titration tube.
11. Repeat steps 2 and 3 to add another 1.0 mL of sample water (total of 2.0 mL) to the titration tube.
12. Add 3 drops of *Salinity Indicator Reagent A (7460). Cap and gently swirl to mix. Solution will turn yellow.
13. Fill the 0-20 Direct Reading Titrator (0378) with *Salinity Titration Reagent B (7461DR). Insert Titrator into hole of cap.
14. While gently swirling sample, slowly depress the plunger until color changes from yellow to pink-brown. Read test result where the large ring on the Titrator meets the Titrator barrel. Divide the result by 4. Record as ppt Salinity.
15. If Titrator becomes empty before color change occurs, refill and continue titrating. Add original amount to final result.

    NOTE: Each minor division = 0.1 ppt Salinity

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