

# SALINITY KIT



Code 7459-02 | Direct Reading Titrator, 0-5 ppt, 0-20 ppt

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, 5-10-12.9-15-20-25 mL, w/cap	0608	
1	Direct Reading Titrator, 0-20 Range	0378	
1	Direct Reading Titrator, 0-1.0 Range	0376	
To order individual reagents or test kit components, use the specified code number.			

\*Reagent is a potential health hazard. **READ SDS:** lamotte.com

**Emergency information:**  
Chem-Tel USA 1-800-255-3924  
Int'l, call collect, 813-248-0585

## PROCEDURE A: 0-20 ppt SALINITY

1. Fill test tube [0608] 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

## PROCEDURE B: 0-5 ppt SALINITY

1. Fill test tube [0608] 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 the entire 1.0 mL into the titration tube.
4. Repeat steps 2 and 3 to add another 1.0 mL of sample water [total of 2.0 mL] to the titration tube.
5. Add 3 drops of \*Salinity Indicator Reagent A [7460]. Cap and gently swirl to mix. Solution will turn yellow.
6. Fill the 0-20 Direct Reading Titrator [0378] with \*Salinity Titration Reagent B [7461DR]. Insert Titrator into hole of cap.

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7. 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.
8. 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