

**ALKALINITY TEST KIT**  
**DIRECT READING TITRATOR METHOD**  
**MODEL WAT-DR • CODE 4491-DR**

<b>QUANTITY</b>	<b>CONTENTS</b>	<b>CODE</b>
50	BCG-MR Indicator Tablets	T-2311-H
60 mL	*Alkalinity Titration Reagent B	*4493DR-H
1	Test Tube, 5-10-15 mL, w/cap	0778
1	Direct Reading Titrator, 0-200 Range	0382
1	Alkalinity Endpoint Color Chart	4491-CC
1	Acid Demand Index	1546

**\*WARNING:** Reagents marked with a \* are considered to be potential health hazards. To view or print a Material Safety Data Sheet (MSDS) for these reagents see MSDS CD or [www.lamotte.com](http://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.

This test set provides total alkalinity readings only.

Read LaMotte Direct Reading Titrator Manual before proceeding. The Titrator is calibrated in terms of total alkalinity expressed as parts per million (ppm) Calcium Carbonate ( $\text{CaCO}_3$ ). Each minor division on the Titrator scale equals 4 ppm  $\text{CaCO}_3$ .

**NOTE:** When testing swimming pool water, consult an Acid Demand Index to determine if the total alkalinity is too high. The Index will indicate the recommended amount of acid required to offset high alkalinity content.

# ALKALINITY TEST PROCEDURE

1.

Fill the titration tube (0778) to the 5 mL line with the sample water.



2.

Add one BCG-MR Indicator Tablet (T-2311).



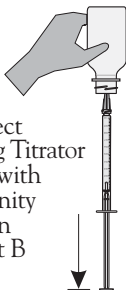
3.

Cap and swirl to mix until tablet dissolves. Solution will turn blue-green.



4.

Fill Direct Reading Titrator (0382) with \*Alkalinity Titration Reagent B (4493).



5.

Insert the Titrator into the center hole of the test tube cap.



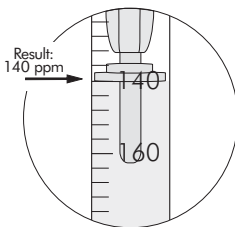
6.

While gently swirling the tube, slowly press the plunger to titrate until the solution color changes from blue-green to purple. Consult Alkalinity Endpoint Color Chart (4491-CC).



7.

Read the test result where the plunger tip meets the Titrator scale. Record as ppm Total Alkalinity in ppm Calcium Carbonate ( $\text{CaCO}_3$ ).



## NOTE:

If the plunger tip reaches the bottom line on the scale (200 ppm) before the endpoint color change occurs, refill the Titrator and continue the titration.

When recording the test result, be sure to include the value of the original amount of reagent dispensed (200 ppm).