





# TOTAL HARDNESS (LOW RANGE) KIT



Code 3037-DR-01 | Direct Reading Titrator, 0-10 ppm

QUANTITY	CONTENTS	CODE	
15 mL	*Hardness Reagent #5	*4483-E	  *Reagent is a potential health hazard. <b>READ SDS:</b> <a href="http://lamotte.com">lamotte.com</a> <b>Emergency information:</b> Chem-Tel USA 1-800-255-3924 Int'l, call collect, 813-248-0585    
15 mL	*CM Indicator Reagent	*6522-E	
60 mL	Hardness Titration Reagent	4257-H	
1	Test Tube, 5-10-12.9-15-20-25 mL, w/cap	0608	
1	Direct Reading Titrator, 0-10 Range	0377	
To order individual reagents or test kit components, use the specified code number.			

Carefully read the instruction manual for the LaMotte Direct Reading Titrator before performing the titration described below. The Titrator is calibrated in terms of Hardness expressed as parts per million [ppm] Calcium Carbonate [CaCO<sub>3</sub>]. Each minor division on the Titrator scale equals 0.2 ppm CaCO<sub>3</sub>.

## PROCEDURE

1. Fill the test tube [0608] to the 25 mL line with sample water.
2. Add 8 drops of \*Hardness Reagent 5 [4483] and 8 drops of \*CM Indicator Reagent [6522]. Cap the tube and swirl to mix. A red or purple color will appear if hardness is present. Solution will turn puple or red if hardness is present. If solution is blue, there is no measurable amount of hardness.
3. Fill the Direct Reading Titrator [0377] with the Hardness Titration Reagent [4257]. Insert the Titrator in the center hole of the titration tube cap.
4. While gently swirling the tube, slowly press the plunger to titrate until the red or purple color changes to a bright blue with no trace of red. Read the test result directly from the scale where the large ring on the Titrator meets the Titrator barrel. The result is expressed as Total Hardness in ppm CaCO<sub>3</sub>.
5. If the plunger tip reaches the bottom line on the Titrator scale [10 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 [10 ppm].