



TOTAL HARDNESS KIT

DROP COUNT, 1 drop = 10, 25, 50 ppm

CODE 7171-02

QUANTITY	CONTENTS	CODE
2 x 30 mL	*Hardness Reagent #5	*4483-G
30 mL	*Hardness Reagent #6 Solution	*4485-G
60 mL	Hardness Titrant 10	2783WT-H
1	Test Tube, 5-10-15-20-25 mL, plastic, w/cap	0715

*WARNING: Reagents marked with an * are considered to be potential health hazards. To view or print a Safety Data Sheet (SDS) for these reagents go to www.lamotte.com. Search for the four digit reagent code number listed on the reagent label, in the contents list or in the test procedures. Omit any letter that follows or precedes the four digit code number. For example, if the code is 4450WT-H, search 4450. To obtain a printed copy, contact LaMotte by email, phone or fax.

Emergency information for all LaMotte reagents is available from Chem-Tel: (US, 1-800-255-3924) (International, call collect, 813-248-0585).

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

PROCEDURE

1. This test allows the analyst to use different sample volumes to vary equivalencies. Rinse test tube with sample water. Fill with desired sample size selected from table.

<u>SAMPLE SIZE</u>	<u>EQUIVALENCE</u>
25 mL	1 drop = 10 ppm
10 mL	1 drop = 25 ppm
5 mL	1 drop = 50 ppm

2. Add *Hardness Reagent #5 (4483) as follows:

25 mL 10 drops
10 mL 8 drops
5 mL 5 drops

Swirl to mix

3. Add *Hardness Reagent #6 Solution (4485) as follows:

25 mL 5 drops
10 mL 3 drops
5 mL 2 drops

Swirl to mix. Solution will be red if hardness is present. If solution is blue, there is no measurable amount of hardness.

4. While swirling tube, add Hardness Titrant 10 (2783WT) one drop at a time, until color changes to blue. Count the number of drops added. Hold bottle vertically.
5. Multiply number of drops used in Step 4 as follows:
 - 25 mL multiply by 10
 - 10 mL multiply by 25
 - 5 mL multiply by 50Record the result as ppm Total Hardness as CaCO₃.

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