**TOTAL HARDNESS KIT**

DROP COUNT, 1 DROP = 10, 20 ppm or 1 gpg

CODE 4482-LI-02

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<td>15 mL</td>
<td>*Hardness Reagent #5</td>
<td>*4483-E</td>
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<td>15 mL</td>
<td>*Hardness Reagent #6</td>
<td>*4485-E</td>
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<td>60 mL</td>
<td>Hardness Reagent #7</td>
<td>4487WT-H</td>
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<td>1</td>
<td>Test Tube, Hardness, w/ cap</td>
<td>4488</td>
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*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 numbers.
TOTAL HARDNESS TEST PROCEDURE

1. Fill the test tube (4488) to the desired line with the sample water.
   - Upper line: 1 drop = 10 ppm CaCO₃
   - Middle line: 1 drop = 1 gpg CaCO₃
   - Lower line: 1 drop = 20 ppm CaCO₃

2. Add 5 drops of *Hardness Reagent #5 (4483).

3. Swirl to mix.

4. Add 5 drops of *Hardness Reagent #6 (4485).

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

6. While gently swirling the tube, add Hardness Reagent #7 (4487WT) one drop at a time until the red color changes to blue. Count the number of drops added. Hold bottle vertically.

7. Multiply the number of drops used in Step 6 as follows:

   Tube filled to:
   - Upper line: each drop equals 10 ppm Hardness as CaCO₃
   - Middle line: each drop equals 1 gpg Hardness as CaCO₃
   - Lower line: each drop equals 20 ppm Hardness as CaCO₃