## RainSoft

### HARDNESS/IRON COMBINATION TEST KIT

**CODE 9101-01**

<table>
<thead>
<tr>
<th>QUANTITY</th>
<th>CONTENTS</th>
<th>CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>60 mL</td>
<td>*Hardness Reagent #5</td>
<td>*4483WT-H</td>
</tr>
<tr>
<td>60 mL</td>
<td>*Hardness Reagent #6</td>
<td>*4485WT-H</td>
</tr>
<tr>
<td>60 mL</td>
<td>Hardness Reagent #7</td>
<td>4487WT-H</td>
</tr>
<tr>
<td>60 mL</td>
<td>*Iron Reagent #1</td>
<td>*4450WT-H</td>
</tr>
<tr>
<td>4.5 g</td>
<td>*Iron Reagent #2</td>
<td>*4451-S</td>
</tr>
<tr>
<td>2</td>
<td>Test Tube, w/cap</td>
<td>4488</td>
</tr>
<tr>
<td>1</td>
<td>Test Tube, 5 mL, w/cap</td>
<td>0230</td>
</tr>
<tr>
<td>1</td>
<td>Spoon, 0.05 g</td>
<td>0696</td>
</tr>
<tr>
<td>1</td>
<td>Iron Comparator, 0.5 - 10.0 ppm</td>
<td>4448</td>
</tr>
</tbody>
</table>

*WARNING:* Reagents marked with an * are considered to be potential health hazards. To view or print a Material Safety Data Sheet (MSDS) for these reagents go to [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.
**PROCEDURE**

**TOTAL HARDNESS**

1. Fill sample tube (4488) to appropriate line with sample water:
   When the tube is filled to the upper line, each drop of Hardness Reagent #7 is equal to 10 ppm.
   When the tube is filled to the middle line each drop of Hardness Reagent #7 is equal to one grain per gallon.
   For hardness levels above 200 ppm, fill tube to lower line.

2. Add 5 drops of *Hardness Reagent #5 (4483WT). Cap and mix.

3. Add 5 drops of *Hardness Reagent #6 (4485WT). Cap and mix.

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

5. Calculate result:
   If tube is filled to upper line, multiply by 10. Record as ppm Total Hardness.
   If tube is filled to middle line, record as gpg Total Hardness.
   If tube is filled to lower line, multiply by 20. Record as ppm Total Hardness.

**IRON**

1. Fill test tube (0230) to line with sample water.


3. Use 0.05g spoon (0696) to add one measure of *Iron Reagent #2 (4451). Cap and shake until powder dissolves. Wait 5 minutes.


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