USE OF THE OCTA-SLIDE COMPARATOR

The Octa-Slide Viewer should be held so non-direct light enters through the back of the comparator. With sample tube inserted at top, slide the Octa-Slide bar through the viewer and match with color standard.

To Use:

1. Insert the Octa-Slide Bar into the Octa-Slide Viewer (1100).

2. Insert test tube into Octa-Slide Viewer.

3. Match sample color to a color standard. Record results.
# Combination Water Outfit

**Model AR-02 • Code 4783-02**  
**Model AR-42 • Code 3590-02**

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Contents</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 mL</td>
<td>*Hardness Reagent #5</td>
<td>*4483-E</td>
</tr>
<tr>
<td>100</td>
<td>Hardness Reagent #6 Tablets</td>
<td>4484-J</td>
</tr>
<tr>
<td>60 mL</td>
<td>Hardness Reagent #7</td>
<td>4487WT-H</td>
</tr>
<tr>
<td>30 mL</td>
<td>*Iron Reagent #1</td>
<td>*4450-G</td>
</tr>
<tr>
<td>4.5 g</td>
<td>*Iron Reagent #2 Powder</td>
<td>*4451-S</td>
</tr>
<tr>
<td>30 mL</td>
<td>*Wide Range Indicator</td>
<td>*2218-G</td>
</tr>
<tr>
<td>30 mL</td>
<td>*Sulfide Reagent A</td>
<td>*4458-G†</td>
</tr>
<tr>
<td>15 mL</td>
<td>*Sulfide Reagent B</td>
<td>*4459-E†</td>
</tr>
<tr>
<td>60 mL</td>
<td>Sulfide Reagent C</td>
<td>4460-H†</td>
</tr>
<tr>
<td>1</td>
<td>Test Tube, w/cap</td>
<td>4488</td>
</tr>
<tr>
<td>1</td>
<td>Spoon, 0.05 g, plastic</td>
<td>0698</td>
</tr>
<tr>
<td>4 (6†)</td>
<td>Test Tubes, plastic, 2.5-5-10 mL, w/caps</td>
<td>0106</td>
</tr>
<tr>
<td>1</td>
<td>Pipet, 1.0 mL, plastic</td>
<td>0354</td>
</tr>
<tr>
<td>1</td>
<td>Iron Octa-Slide Bar, 0.5-10.0 ppm</td>
<td>3411</td>
</tr>
<tr>
<td>1</td>
<td>Wide Range pH Octa-Slide Bar, 5.0-10.0 ppm</td>
<td>3483</td>
</tr>
<tr>
<td>1</td>
<td>Sulfide Octa-Slide Bar, 0.2-20 ppm</td>
<td>3414†</td>
</tr>
<tr>
<td>1</td>
<td>Octa Slide Viewer</td>
<td>1100</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. 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.

†*Model AR-42 Only*
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 1 Hardness Reagent #6 Tablet (4484).

5. Swirl until tablet has disintegrated. Solution will turn red.

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

7. Multiply the number of drops used in Step 6 as follows:
   upper line: multiply by 10 = ppm Hardness as CaCO₃
   middle line: multiply by 1 = gpg Hardness as CaCO₃
   lower line: multiply by 20 = ppm Hardness as CaCO₃
**IRON TEST PROCEDURE**

1. Fill a test tube (0106) to the 5 mL line with the sample water.


3. Use the 0.05g spoon (0696) to add 0.05g of *Iron Reagent #2 Powder (4451).

4. Cap and gently shake until powder dissolves.

5. Wait 3 minutes.


7. Insert test tube into Octa-Slide Viewer.

8. Match sample color to a color standard. Record as ppm Iron.
**pH TEST PROCEDURE**

1. Fill a test tube (0106) to the 5 mL line with the sample water.

2. Add 10 drops of *Wide Range Indicator (2218).

3. Cap and mix.

4. Insert Wide Range pH Octa-Slide Bar (3483) into the Octa-Slide Viewer (1100).

5. Insert test tube into Octa-Slide Viewer.

6. Match sample color to a color standard. Record as pH.
TOTAL SULFIDE TEST PROCEDURE†
†Supplied only with Model AR-42 • Code 3590-02

NOTE: Collect sample with a minimum of aeration and analyze promptly.

1. Fill a test tube (0106) to the 5 mL line with the sample water.


4. Wait 1 minute.

5. Use the pipet (0354) to add 1.0 mL of Sulfide Reagent C (4460). Cap and mix.

6. Insert Sulfide Octa-Slide Bar (3414) into the Octa-Slide Viewer (1100).

7. Insert test tube into Octa-Slide Viewer.

8. Match sample color to a color standard. Record as ppm Sulfide.

NOTE: Collect sample with a minimum of aeration and analyze promptly.