# PHOSPHATE IN WATER TEST KIT

**MODEL PAA • CODE 3114-01**

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<th>QUANTITY</th>
<th>CONTENTS</th>
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<tr>
<td>2 x 30 mL</td>
<td>*Phosphate Acid Reagent</td>
<td>*V-6282-G</td>
</tr>
<tr>
<td>5 g</td>
<td>*Phosphate Reducing Reagent</td>
<td>*V-6283-C</td>
</tr>
<tr>
<td>2</td>
<td>Test Tubes, 10 mL, glass, w/caps</td>
<td>0843</td>
</tr>
<tr>
<td>1</td>
<td>Spoon, 0.1 g</td>
<td>0699</td>
</tr>
<tr>
<td>2</td>
<td>Pipets, 1.0 mL, plastic</td>
<td>0354</td>
</tr>
<tr>
<td>1</td>
<td>Demineralizer Bottle</td>
<td>1151</td>
</tr>
<tr>
<td>1</td>
<td>Phosphate Comparator, 0.5-10 ppm</td>
<td>3115</td>
</tr>
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*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.

**NOTES:**
- This test determines levels of Orthophosphates only.
- This test should be run on clear samples only.
- Best results are obtained when solution temperatures are 23-25°C.

**USE OF THE OCTET COMPARATOR**

The Octet Comparator contains eight permanent color standards. A test sample is inserted into the openings in the top of the comparator. The sample can then be compared to four color standards at once, and the value read off the comparator. For optimum color comparison, the comparator should be positioned between the operator and a light source, so that the light enters through the special light-diffusing screen in the back of the comparator. Avoid viewing the comparator against direct sunlight or an irregularly lighted background.
**PROCEDURE**

**RANGE: 0.5-10 ppm PHOSPHATE (PO₄)***

1. Fill a test tube (0843) to 10 mL line with sample water.
2. Use a 1.0 mL pipet (0354) to add 1.0 mL of *Phosphate Acid Reagent (6282). Cap and mix.
3. Use a 0.1 g spoon (0699) to add one level measure of *Phosphate Reducing Reagent (6283). Cap and mix until dissolved. Wait 5 minutes.
4. Insert test tube into Phosphate Comparator (3115). Match sample color to a color standard. Record as ppm Phosphate.

**RANGE: 5-100 ppm PHOSPHATE (PO₄), 1:10 DILUTION***

1. Use a 1.0 mL pipet (0354) to add 1.0 mL of sample water to test tube (0843).
2. Dilute to 10 mL line with deionized water from the Demineralizer Bottle (1151).
3. Use a second 1.0 mL pipet (0354) to add 1.0 mL *Phosphate Acid Reagent (6282). Cap and mix.
4. Use the 0.1g spoon (0699) to add one level measure of *Phosphate Reducing Reagent (6283). Cap and mix until dissolved. Wait 5 minutes.