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

NOTE: This test has been calibrated for Dequest 2006. When a different compound is to be tested, the amount of Thorium Nitrate added should be multiplied by a conversion factors below to determine ppm Phosphonate. If any other phosphonate compound is used, the factor must be determined experimentally using standard solutions of that compound.

<table>
<thead>
<tr>
<th>Phosphonate</th>
<th>Compound Name</th>
<th>Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dequest 2000</td>
<td>AMP(NTP)</td>
<td>0.8</td>
</tr>
<tr>
<td>Dequest 2006</td>
<td>NaAMP</td>
<td>1.0</td>
</tr>
<tr>
<td>Dequest 2010</td>
<td>HEDP(A)</td>
<td>0.6</td>
</tr>
<tr>
<td>Belcor 575</td>
<td></td>
<td>0.5</td>
</tr>
</tbody>
</table>
PROCEDURE

For most accurate results, a blank test should be run on a sample of the water containing no phosphonate. Any result from this blank test should be subtracted from the result recorded in Step 6.

1. Fill the test tube (0778) to the 10 mL line with sample water.
2. Add 1 drop of Sodium Thiosulfate (6155) and 5 drops of *Fluoride Inhibitor (3929).
3. Use the 0.1 g measuring spoon (0699) to add one level measure of Xylenol Orange (6165). Swirl to dissolve.
4. Best results are obtained in the pH range 2.5-3.0. This adjustment is made by adding *Hydrochloric Acid (6130) drop by drop to the sample and using the pH paper (2958) to test the solution. After each addition of *Hydrochloric Acid (6130) dip a strip of pH paper, torn from the roll, into the test solution for 5 seconds. Compare the resulting color with the color standards on the side of the pH paper container. Add *Hydrochloric Acid (6130) until the color of the pH paper matches the pH 2.8 color standard. The sample will be yellow.
5. Replace the regular cap on the bottle of Thorium Nitrate (6158PS) with the dispenser cap (0601). Fill the Direct Reading Titrator (0378) with this reagent. Insert the Titrator into the center hole of the titration tube cap.
   NOTE: Replace the regular cap on the Thorium Nitrate bottle for storage.
6. While gently swirling the titration tube, slowly press the plunger to titrate until the solution changes from yellow to pink. Read the test result directly from the scale where the large ring on the Titrator meets the Titrator barrel. Record the result in ppm phosphonate.