#997PDQ-Organo Phosphonate Test Kit
(1drop = 1ppm active Phosphonate /25ml)

MCI OptiDrop Test Procedure

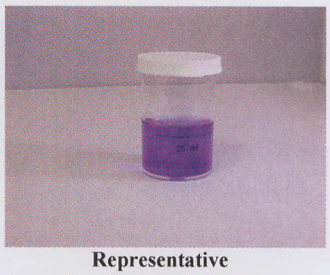
1. Fill the mixing bottle with the water to be tested to the top of the etched mark (25ml); the bottom of the curved surface or meniscus should be exactly level with the mark.
2. Add ***5*** *drops* of **PDQ Indicator/Buffer Solution** and mix well. The sample should now be **Orangish** in color.
3. Add **PDQ Phosphonate Titrating Solution**, drop by drop, swirling mixing bottle between each drop, counting the drops, until the water turns a permanent **Deep Purple** color.

This is the endpoint.

(For accurate results, carefully hold the ***OptiDrop*** dispenser in a vertical position)

Record number of drops of **PDQ Phosphonate Titrating Solution** used. (A)

PDQ Indicator/Buffer Solution



Representative Deep Purple Endpoint

4. The Total Organo Phosphonate reading (B), in ppm (mg/l) is equal to the number of drops of **PDQ Phosphonate Titrating Solution** used to titrate the system sample (A) minus the auto blank determination 4 (B).

A – B (4 drop Blank) = C (Total Organo Phosphonate)

Example:
10 drops – 4 (auto blank) = 6 ppm Total Organo Phosphonate

5. The amount of ***Product*** present in the system is determined by multiplying the answer (B) from Step 4 by (F), the factor supplied by your Water Treatment Representative.

Example:
A - B (auto blank value 4) = C x F =
Total Product present in system.

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MCI OptiDrop Test Procedure

Replacement Reagents & Equipment for #997PDQ Organo Phosphonate Test
1 - #R999/1-Q **PDQ PhosphonateTitrating Solution** (OptiDrop Dispenser) (1drop = 1ppm as 100% O.P./25 ml Sample)
1- #998-X- **PDQ Indicator/Buffer Solution**
2- #401- Scribed Test Bottle, 25ml Plastic w/cap
1 - #404PDQ- Plastic Test Kit Box
(High Alkalinity Samples) #R462-A- O.P. pH Adjustor Solution (Optional) Should the sample color remain purple after adding **PDQ Indicator/Buffer Solution**, this denotes highly alkaline samples and the pH of the sample must be adjusted. Add 1 drop of **O.P. pH Adjustor Solution** and mix, continue to add drops of **O.P. pH Adjustor Solution**, mixing after each drop until the sample color turns to the Orangish color. Repeat if necessary.
Note: **PDQ Indicator/Buffer Solution** contains ingredients that remove test interferences caused by Chlorine, Bromine and Fluorides. If the sample contains significant levels of Iron and/or suspended solids, filtration before analysis should be done. (An Organo Phosphonate pre-treatment filtration kit is available.) **If Sulfate levels are present above the 300 ppm level and presumed to be a source of interference, the addition of 5 drops of Sulfate Suppressor Solution to the sample followed by pre-treatment filtration will remove this test interference.**

Product Control Notes: