Phosphonate (OP) Test Kit

1 drop = 0.7 HEDP or 2 as PBTC / 10 mL

TK0161-Z

purple caps

KIT COMPONENTS:

AD1596-DB	OP Titrant #2, 60 mL
AD1582-100	OP Tablets, 100 pack
BS1077-B	Fluoride Suppressor, 60 mL
HA6310-B	Hydrochloric Acid 10%, 60 mL
PH-1838-PK	pH Strips, pH 1.8-3.8
PT502	Tablet Crusher
VL-0525-V	Vial, 5-25 mL

SAFETY TIPS:


Wear Gloves


Use Eye Protection

Read SDS

TESTING TIPS:


Collect Accurate Sample


Hold Bottles Vertically


Ensure Proper Lighting

INTERFERENCES: As little as 0.5 ppm Fluoride and 1 ppm Orthophosphate will cause interference. Even low concentrations of Iron and Sulfate will cause interference.

ATTENTION: As necessary, calibrate this kit against a known standard made with plant / make-up water. Be sure to collect a representative sample.

EndPoint ID® Test Procedure

Phosphonate (OP) Test Kit TK0161-Z

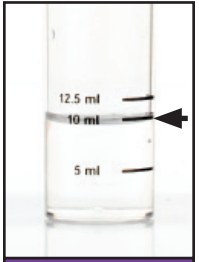
1 Rinse vial three times with sample to be tested. **Fill vial to 10 mL.** Filter if turbid.

2 **Add 5 drops of Fluoride Inhibitor** (BS1077) and swirl to mix.

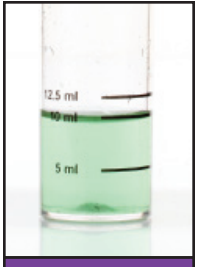
3 **Add 1 OP Tablet** (AD1582), crush and mix. A green color will develop.

4 **Adjust the pH using Hydrochloric Acid 10%** (HA6310). After each drop of acid check the pH with the strips. Continue adding acid until pH is 2.8.

If a yellow color develops start test over.



STEP 1

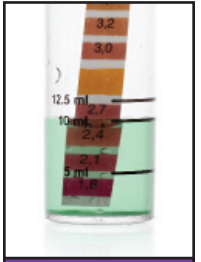


STEP 3

5 **Add OP Titrant** (AD1596) one drop at a time while swirling. Count the number of drops until the sample color changes from green to purple. A gray intermediate color may develop. Keep titrating to the purple endpoint.

drops x 0.7 = ppm as HEDP or ATMP*
drop x 2 = ppm as PBTC*

**For best accuracy, run a blank on the make-up water and subtract the number of drops from the final test results.*



STEP 4

STEP 5