

Phosphonate (OP) Test Kit

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

TK0159-Z

purple caps

KIT COMPONENTS:

AD1596-DB	Organophosphonate Titrant, 60 mL
AD1582-100	OP Tablets, 100 pack
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. Highly alkaline samples may resist buffering. To handle high alkalinity follow the note in Step 2.

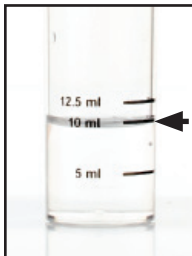
ATTENTION: As necessary, calibrate this kit against a known standard made with plant / make-up water. Be sure to collect a representative sample.



Video Procedure



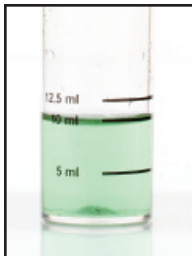
1 Rinse vial three times with sample to be tested. **Fill vial to 10 mL.**



STEP 1

2 Add 1 OP Tablet (AD1582) crush and swirl to mix. A green color will develop.

For high alkalinity samples, 2-3 tablets may be necessary to properly buffer the sample.



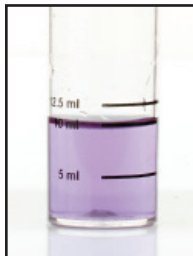
STEP 2

3 Add Organophosphonate 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 3