Phosphonate (OP) Test Kit
Direct reading with syringe titrator

TK0158-Z
purple caps

KIT COMPONENTS:

AD1596	Organophosphonate Titrant, 60 mL
AD1582-100	OP Tablets, 100 pack
0378	Titrator, Direct Reading
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

EndPoint ID® Test Procedure

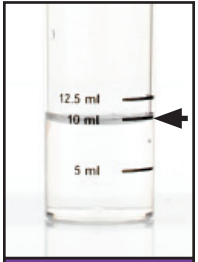
Phosphonate (OP) Test Kit TK0158-Z

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

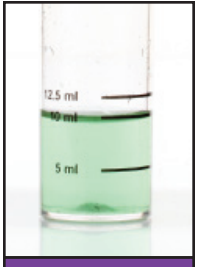
2 **Add 1 OP Tablet** (AD1582) crush and swirl to mix. A green color will develop.

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

3 Put the orifice reducer into **Organophosphonate Titrant** (AD1596) and insert the syringe titrator through the orifice. Hold the bottle upside down and plunge a few times to remove air bubbles from the syringe. **Fill the syringe titrator with the Organophosphonate Titrant** (AD1596) to the zero line. Ensure that there are no air bubbles trapped in the titrator.



STEP 1



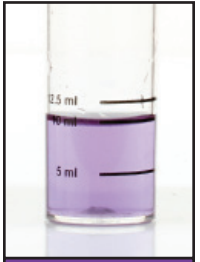
STEP 2

4 **Add drops Organophosphonate Titrant** (AD1596) with the syringe titrator while swirling. Continue adding titrant until the sample color changes from green to purple. **Read the titrator.** A gray intermediate color may develop. Keep titrating to the purple endpoint.

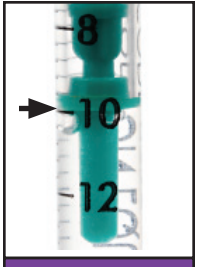
Reading on titrator = ppm as HEDP or AML

Reading on titrator x 2.6 = ppm as PBTC

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



STEP 4



READ TITRATOR