Alkalinity (P/M, P/T) Test Kit

1 drop = 10 or 50 ppm as $CaCO_3$ / 25 mL

TK1022-Z

red caps

KIT COMPONENTS:

SA1555-B	Alkalinity Titrant Low, 60 mL
SA1595-B	Alkalinity Titrant High, 60 mL
PH1605-A	Phenolphthalein Indicator, 30 mL
AI6925-A	Total Alkalinity Indicator, 30 mL
MO3319-A	Methyl Orange Indicator, 30 mL
VL-1005-V	Vial, 10-50 mL

SAFETY TIPS:


Wear Gloves


Use Eye Protection

Read SDS

TESTING TIPS:


Collect Accurate Sample


Hold Bottles Vertically


Ensure Proper Lighting

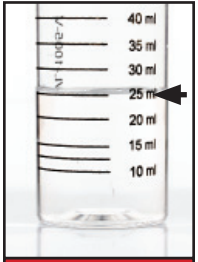
INTERFERENCES: Highly colored or turbid samples may mask the color change at the end point. Use a pH meter for these samples titrating for the phenolphthalein alkalinity and for total alkalinity. Chloride levels above 3.5 ppm may cause a yellow-brown color upon the addition of the methyl orange.

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

Alkalinity (P/M, P/T) Test Kit — TK1022-Z

1 Rinse vial three times with sample to be tested. **Fill vial to 25 mL.**

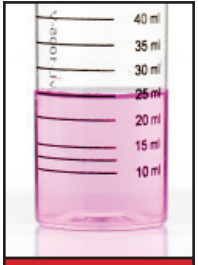


STEP 1

2 **Add 3 drops of Phenolphthalein Indicator** (PH1605) and swirl to mix. The sample should turn pink.

3 **Add Alkalinity Titrant** one drop at a time while swirling. Count the number of drops until the sample color changes from pink to colorless. Record the number of drops as P-Alkalinity.

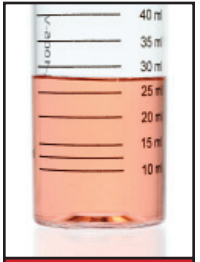
For M-Alkalinity, proceed to step 4. For T-Alkalinity, proceed to step 6



STEP 2

4 **Add 3 drops of Methyl Orange Indicator** (MO3319) and swirl to mix. The sample should turn yellow.

5 **Add Alkalinity Titrant** one drop at a time while swirling. Count the number of drops until the sample color changes from yellow to orange. Record the total number of drops (from steps 3 and 5) as M-Alkalinity.



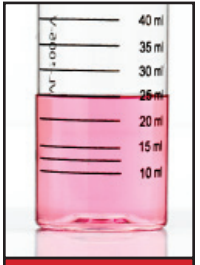
STEP 5

6 **Add 3 drops of Total Alkalinity Indicator** (AI6925) and swirl to mix. The sample should turn green.

7 **Add Alkalinity Titrant** one drop at a time while swirling. Count the number of drops until the sample color changes from green to red. Record the total number of drops (from step 3 & 7) as T-Alkalinity.

Alkalinity Titrant Low (SA1555)
drops x 10 = ppm as $CaCO_3$

Alkalinity Titrant High (SA1595)
drops x 50 = ppm as $CaCO_3$



STEP 7