

Alkalinity (P/T) Test Kit

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

TK1023-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
VL-1005-V	Vial, 10-50 mL

INTERFERENCES: Turbid samples may mask the color change at the endpoint. Use a pH meter for these samples titrating for the phenolphthalein alkalinity and for total alkalinity.

SAFETY TIPS:



Wear
Gloves



Use Eye
Protection



Read
SDS

TESTING TIPS:



Collect
Accurate
Sample



Hold
Bottles
Vertically



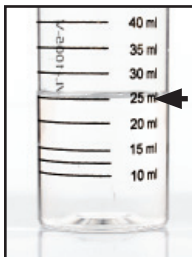
Ensure
Proper
Lighting

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

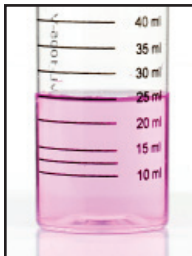


1 Rinse vial three times with sample to be tested. **Fill vial to 25 mL.**



STEP 1

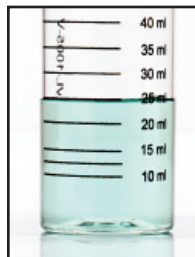
2 Add 3 drops of **Phenolphthalein Indicator** (PH1605) and swirl to mix. The sample should turn pink.



STEP 2

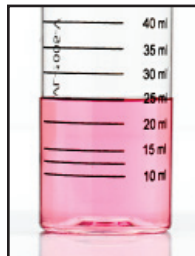
3 Add **Alkalinity Titrant** one drop at a time while swirling. Count the number of drops until the sample color changes from pink to colorless. Record the number of drops as P-Alkalinity.

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



STEP 4

5 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 & 5) as T-Alkalinity.



STEP 5

Alkalinity Titrant Low (SA1555)
 $\# \text{ drops} \times 10 = \text{ppm as CaCO}_3$

Alkalinity Titrant High (SA1595)
 $\# \text{ drops} \times 50 = \text{ppm as CaCO}_3$

OH Alkalinity = $(2 \times P) - M$