

# Chloride Test Kit

**TK1112-Z**  
yellow caps

## KIT COMPONENTS:

|           |                                     |
|-----------|-------------------------------------|
| SN3410-B  | Chloride Titrant, 60 mL             |
| PC8025-B  | Potassium Chromate Indicator, 60 mL |
| PH1605-A  | Phenolphthalein Indicator, 30 mL    |
| SA1555-B  | Alkalinity Titrant Low, 60 mL       |
| HP1003-B  | Hydrogen Peroxide 3%, 60 mL         |
| VL-1005-V | Vial, 10-50 mL                      |

## INTERFERENCES:

The effect of interferences increases as the sample size increases. Iron concentrations can mask the endpoint. Orthophosphate in excess of 25 ppm will precipitate the silver. Cyanide, Bromide and Iodide interfere directly and create a positive interference. Sulfite provides a positive interference. Sulfite can be eliminated with Hydrogen Peroxide 3% before testing.

### SAFETY TIPS:



Wear  
Gloves



Use Eye  
Protection



Read  
SDS

### TESTING TIPS:



Collect  
Accurate  
Sample



Hold  
Bottles  
Vertically



Ensure  
Proper  
Lighting

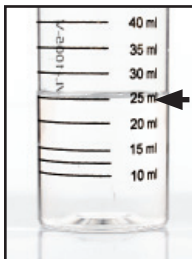
**ATTENTION:** As necessary, calibrate this kit against a known standard made with plant / make-up water. Be sure to collect a representative sample.

**1 Select a sample size** based on the desired drop equivalency. For smaller sample sizes, use a 5 mL syringe to collect the sample and dilute to 10 mL if necessary.

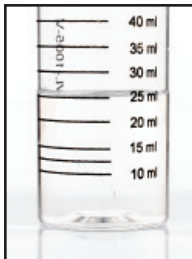
|                  |               |
|------------------|---------------|
| 1 drop = 10 ppm  | 25 mL sample  |
| 1 drop = 25 ppm  | 10 mL sample  |
| 1 drop = 50 ppm  | 5 mL sample   |
| 1 drop = 100 ppm | 2.5 mL sample |
| 1 drop = 500 ppm | 0.5 mL sample |

**2** If sulfites are present, **add 6 drops of Hydrogen Peroxide 3%** (HP1003). Swirl for 30 seconds

**3 Add 2 drops of Phenolphthalein Indicator** (PH1605) and swirl to mix. If the sample remains colorless, proceed to step 4. If the sample turns red, add Alkalinity Titrant Low (SA1555) one drop at a time, while swirling, until the sample color changes from red to colorless.

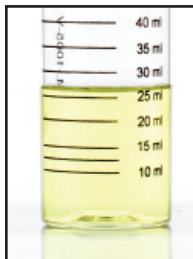


STEP 1



STEP 3

**4 Add 6 drops of Potassium Chromate Indicator** (PC8025) and swirl to mix. The sample should turn yellow.

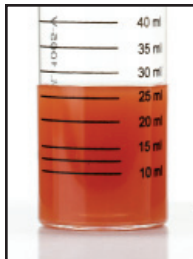


STEP 4

**5 Add Chloride Titrant** (SN3410) one drop at a time while swirling. Count the number of drops until the sample color changes from yellow to red. The first color change is the endpoint.

$$\# \text{ drops} \times \text{factor} = \text{ppm Chloride (Cl)}$$

*To convert Chloride (Cl) to Sodium Chloride (NaCl): Multiply results by 1.65.*



STEP 5