

# Quat Test Kit

## Part - A

# TK9100-Z

## gray caps

### KIT COMPONENTS:

QA3485-A	QAC Spike Reagent, 30 mL
CO3300-A	Complexing Reagent, 30 mL
PH1605-A	Phenolphthalein Indicator, 30 mL
SA1590-A	Sulfuric Acid 0.5N, 30 mL
TB3800-A	Toluidine Blue O Indicator, 30 mL
QA3480-B	QAC DT, 60 mL
SY-2030-P	Syringe, 30 mL
VL-1005-V	Vial, 10-50 mL (x2)

### INTERFERENCES:

High alkaline water

### 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** Rinse the vial 3 times with the make-up water to be tested. **Fill one vial to 25 mL** with the make-up water.

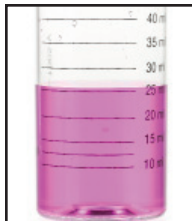
**2** Add 5 drops of **QAC Spike Reagent** (QA3485) and swirl to mix.

**3** Add 2 drops of **Complexing Reagent** (CO3300) and swirl to mix.

**4** Add 3 drops of **Phenolphthalein Indicator** (PH1605) and swirl to mix. If the sample remains colorless, add 1 drop of Sulfuric Acid 0.5N (SA1590). If the sample turns pink-red, go to step 5.



STEP 1



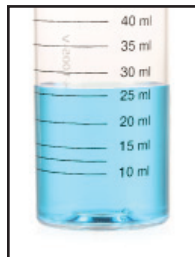
STEP 4

**5** Add **Sulfuric Acid 0.5N** (SA1590) one drop at a time, swirling after each drop, until the sample turns colorless. Then add 1 additional drop.

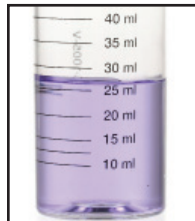
**6** Add 2 drops of **Toluidine Blue O Indicator** (TB3800) and swirl to mix. The sample will turn blue.

**7** Add **QAC DT** (QA3480) one drop at a time while swirling. Count the number of drops until the sample color changes from blue to purple-pink. Record the number of drops as A.

Retain this vial for comparison in Part – B. Continue test in Part – B.



STEP 6



STEP 7

# Quat Test Kit

## Part - B

# TK9100-Z

gray caps

### KIT COMPONENTS:

QA3485-A	QAC Spike Reagent, 30 mL
CO3300-A	Complexing Reagent, 30 mL
PH1605-A	Phenolphthalein Indicator, 30 mL
SA1590-A	Sulfuric Acid 0.5N, 30 mL
TB3800-A	Toluidine Blue O Indicator, 30 mL
QA3480-B	QAC DT, 60 mL
SY-2030-P	Syringe, 30 mL
VL-1005-V	Vial, 10-50 mL (x2)

### INTERFERENCES:

High alkaline water

#### 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.

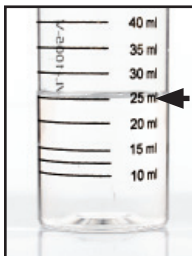


**1** Rinse vial three times with sample to be tested. **Fill the second vial to 25 mL** with the sample.

**2** Add **5 drops of QAC Spike Reagent** (QA3485) and swirl to mix.

**3** Add **2 drops of Complexing Reagent** (CO3300) and swirl to mix.

**4** Add **3 drops of Phenolphthalein Indicator** (PH1605) and swirl to mix. If the sample remains colorless, add 1 drop of Sulfuric Acid 0.5N (SA1590). If the sample turns pink-red, go to step 5.



STEP 1



STEP 4

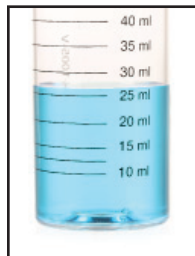
**5** Add **Sulfuric Acid 0.5N** (SA1590) one drop at a time, swirling after each drop, until the sample turns colorless. Then add 1 additional drop.

**6** Add **2 drops of Toluidine Blue O Indicator** (TB3800) and swirl to mix. The sample will turn blue. Set the first vial (Part – A) next to this one for comparison.

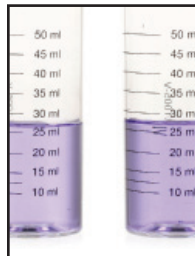
**7** Add **QAC DT** (QA3480) one drop at a time while swirling. Count the number of drops until the sample color matches the purple-pink color from the original vial. Record the number of drops as B.

# drops B - # drops A = C drops

C x 0.5 = ppm QAC



STEP 6



STEP 7