

Sterilex PerQuat® Test Kit

TK3319-Z
white caps

KIT COMPONENTS:

SB1685-I	Acid Sulfate Crystals, 50 g
PP1409-B	Potassium Permanganate, 60 mL
CP-0020-DR	Dropper, 0.5 / 1.0 mL
SC-1000-P	Scoop, 2 g
SR-6906-P	Stirring Rod, 6"
SY-2001-P	Syringe, 1 mL
VL-1005-V	Vial, 10-50 mL

INTERFERENCES: This method is affected by any oxidizable substances in the sample such as organic matter, sulfides, hydrogen sulfide, or any mercaptans. Glycol interacts with the titrant. If present, these substances can lead to positive interferences. Iron and Copper ions can lead to negative interferences. Lead and Iron ions can cause precipitation.

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.

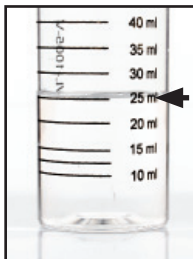
FOR HIGH CONCENTRATIONS
(≥ 3 oz/gallon of each liquid solution
OR ≥ 1.7 oz/gallon of powder):

Using the syringe, add 0.5 mL of the diluted Sterlex solutions to the vial. Fill vial to 25 mL with water.

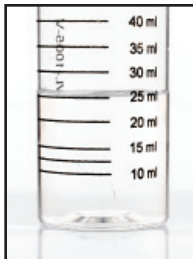
FOR LOW CONCENTRATIONS
(< 3 oz/gallon of each liquid
solution OR < 1.7 oz/gallon of
powder):

Using the syringe, add 1.0 mL of the diluted Sterlex solutions to the vial. Fill vial to 25 mL with water.

2 Using a 2 g scoop, **add 1 scoop of Acid Sulfate Crystals** (SB1685). Swirl to dissolve or use the stirring rod.



STEP 1

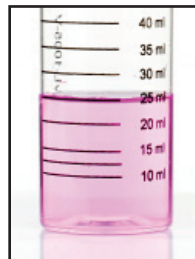


STEP 2

3 Using a dropper, **add Potassium Permanganate Reagent** (PP1409) one drop at a time while swirling. Count the number of drops until the sample color turns a faint but permanent pink. The color must persist for at least 15 seconds.

For determining high product concentrations, see Table 1:
(≥ 3 oz/gallon of each liquid solution
OR ≥ 1.7 oz/gallon of powder).

For determining low product concentrations, see Table 2:
(< 3 oz/gallon of each liquid solution
OR < 1.7 oz/gallon of powder).



STEP 3

TABLE 1:
PerQuat High Level Titration Calibration
Use this table if you added 0.5 mL of PerQuat solution.

# of drops	oz. per gallon each PerQuat liquid solution	oz. per gallon PerQuat powder
3	3.0	1.7
7	6.9	3.9
10	9.8	5.5
13	12.8	7.2

TABLE 2:
PerQuat Low Level Titration Calibration
Use this table if you added 1.0 mL of the PerQuat solution.

# of drops (Permanganate)	oz. per gallon each PerQuat liquid solution	oz. per gallon PerQuat powder
1	0.5	0.3
2	1.0	0.6
3	1.5	0.8
4	2.0	1.1
5	2.5	1.4