

# Biocide / Disinfectant 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

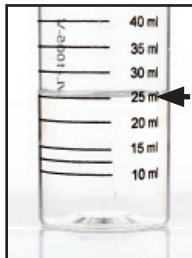


Ensure  
Proper  
Lighting

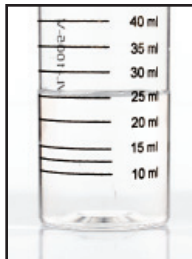
**ATTENTION:** As necessary, calibrate this kit against a known standard made with plant / make-up water. Be sure to collect a representative sample.



**1** Rinse vial three times with sample to be tested. **Using the syringe, add 0.5 mL of the Sterilex mixed solution to the vial. Fill vial to 25 mL with water.**

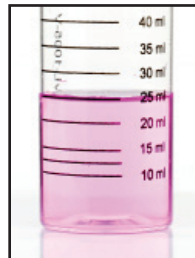
**STEP 1**

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

**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.

Each drop of Permanganate represents slightly less than 1 ounce per gallon (0.92) of each solution. See attached chart.

**STEP 3**

| # of drops<br>(Permanganate) | Product % | oz/gallon<br>each solution |
|------------------------------|-----------|----------------------------|
| 3                            | 1.2%      | 2.8                        |
| 7                            | 2.7%      | 6.5                        |
| 10                           | 3.9%      | 9.2                        |
| 13                           | 5.0%      | 12                         |