Instr. #5806

DROP TEST FREE & COMBINED CHLORINE (1 drop = 0.2 ppm) MONOPERSULFATE COMPOUND (1 drop = 0.2 ppm)

COMPONENTS:

1 x 4030 Pipet, Calibrated (0.5 & 1.0 mL) w/ cap, plastic

1 x 5806 Instruction

1 x 9198 Sample Tube, Graduated (25 mL) w/ cap, plastic

1 x R-0003-C DPD Reagent #3, 2 oz, DB

1 x R-0867-C Deox Reagent, 2 oz 1 x R-0870-I DPD Powder, 10 q

1 x R-0871-C FAS-DPD Titrating Reagent (chlorine), 2oz, DB

TO ORDER REPLACEMENT PARTS AND REAGENTS CALL TOLL-FREE 800-TEST KIT (800-837-8548).

PROCEDURE:

CAREFULLY READ AND FOLLOW PRECAUTIONS ON ALL REAGENT LABELS. KEEP REAGENTS AWAY FROM CHILDREN.

NOTE: This procedure will selectively determine free chlorine, combined chlorine, and monopersulfate (not persulfate). To determine monopersulfate it is first necessary to determine both free and combined chlorine, if present.

NOTE: When dispensing reagents from dropper bottles, **always** hold bottle in a vertical position.

Free & Combined Chlorine Test

- 1. Rinse and fill 25 mL sample tube (#9198) to 25 mL mark with water to be tested.
- Add 1 heaping dipper R-0870 DPD Powder and QUICKLY swirl to mix. IMMEDIATELY add 1.0 mL R-0867 Deox Reagent and QUICKLY swirl to mix. Sample will turn pink if free chlorine (FC) is present.

- Add R-0871 FAS-DPD Titrating Reagent (chlorine) dropwise, swirling and counting after each drop, until color changes from pink to colorless. Number of drops is Reading A. IMMEDIATELY add 10 drops R-0003 DPD Reagent #3. Swirl to mix. WAIT 1 MINUTE. Sample will turn pink if combined chlorine (CC) is present.
- Add R-0871 FAS-DPD Titrating Reagent (chlorine) dropwise, swirling and counting after each drop, until color changes from pink to colorless. Number of drops is Reading B.
- Multiply Reading A by 0.2. Record as parts per million (ppm) free chlorine (FC). Multiply Reading B by 0.2. Record as ppm combined chlorine (CC).

Monopersulfate Compound Test

- 1. Rinse and fill 25 mL sample tube (#9198) to 25 mL mark with water to be tested.
- 2. Add 1 heaping dipper R-0870 DPD Powder. Swirl until dissolved.
- 3. Add 10 drops R-0003 DPD Reagent #3. Swirl to mix. WAIT 1 MINUTE.
- Add R-0871 FAS-DPD Titrating Reagent (chlorine) dropwise, swirling and counting after each drop, until color changes from pink to colorless.
- Multiply drops of R-0871 FAS-DPD Titrating Reagent by 0.2. Record as parts per million (ppm) total oxidizer (TO).
- To calculate parts per million (ppm) monopersulfate compound (MC) as chlorine (Cl₂): Formula: TO - (FC + CC) = MC.

NOTE: A negative value for MC may be obtained when MC is zero (0) or very low (0-0.4 ppm as chlorine). This is caused by variables such as sample measurement, drop variation, etc.

NOTE: Refer to manufacturer's instructions for proper monopersulfate adjustment.

