

Instructions

Instruction Number: 5807

Component	Description
>	DROP TEST
>	FAS-DPD CHLORINE (FREE & COMBINED) (1 drop = 0.2 ppm)
>	MONOPERSULFATE COMPOUND (1 drop = 0.2 ppm)
>	(USE WITH R-0870)

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.

Chlorine (Free, Combined) Test

1. Rinse and fill sample tube to 25 mL mark with water to be tested.
2. Add 1 heaping dipper R-0870 and QUICKLY swirl to mix. IMMEDIATELY add 1.0 mL R-0867 and QUICKLY swirl to mix. Sample will turn pink if free chlorine (FC) is present.
3. Add R-0871 dropwise, swirling and counting after each drop, until color changes from pink to colorless. Always hold bottle in vertical position. Number of drops is Reading A. IMMEDIATELY add 10 drops R-0003. Swirl to mix. WAIT 1 MINUTE. Sample will turn pink if combined chlorine (CC) is present.
4. Add R-0871 dropwise, swirling and counting after each drop, until color changes from pink to colorless. Always hold bottle in vertical position. Number of drops is Reading B.
5. Multiply Reading A by 0.2. Record as ppm free chlorine (FC). Multiply Reading B by 0.2. Record as ppm combined chlorine (CC).

Monopersulfate Compound Test

1. Rinse and fill sample tube to 25 mL mark with water to be tested.
2. Add 1 heaping dipper R-0870. Swirl until dissolved.
3. Add 10 drops R-0003. Swirl to mix. WAIT 1 MINUTE.
4. Add R-0871 dropwise, swirling and counting after each drop, until color changes from pink to colorless. Always hold bottle in vertical position.
5. Multiply drops of R-0871 by 0.2. Record as ppm total oxidizer (TO).
6. To calculate ppm monopersulfate compound (MC) as chlorine:
 $MC = TO - (FC + CC)$. Record as ppm.

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.

CAREFULLY READ AND FOLLOW PRECAUTIONS ON REAGENT LABELS.

KEEP REAGENTS AWAY FROM CHILDREN.

2000 COMPARATOR TEST
DPD CHLORINE (FREE & COMBINED) (.5-5 ppm)
& MONOPERSULFATE COMPOUND
(USE WITH R-0001 & R-0002)

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.

Chlorine (Free, Combined) Test

1. Rinse and fill small comparator tube to 9 mL mark with water to be tested.
2. Add 5 drops R-0001 and 5 drops R-0002. Cap and invert to mix. Remove cap. IMMEDIATELY add 0.5 mL R-0867. Cap and invert to mix.
3. Match color with color standard. Record as parts per million (ppm) free chlorine (FC). Remove cap. IMMEDIATELY add 5 drops R-0003. Cap and invert to mix. WAIT 1 MINUTE.
4. Match color with color standard. Record as ppm total chlorine (TC).
5. Subtract FC from TC. Record as ppm combined chlorine (CC).
Formula: $CC = TC - FC$.

Monopersulfate Compound Test

1. Rinse and fill small comparator tube to 9 mL mark with water to be tested.
2. Add 5 drops R-0001 and 5 drops R-0002. Cap and invert to mix. Remove cap.
3. Add 5 drops R-0003. Cap and invert to mix. WAIT 1 MINUTE.
4. Match color with color standard. Record as ppm total oxidizer (TO).
5. Subtract TC from TO. Record as ppm monopersulfate compound (MC) as chlorine. Formula: $MC = TO - TC$.

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.

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

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