

# DROP TEST

## SODIUM CHLORIDE (1 drop = 20, 40, 100, 200, or 800 ppm)

Instr. #5091

### COMPONENTS:

- 1 x 4078 Pipet, Graduated (3 mL w/ 0.5 mL div.), plastic
- 1 x 5091 Instruction
- 1 x 91980 Sample Tube, Graduated (25 mL) w/ cap & orange dot, plastic
- 1 x R-0630-C Chromate Indicator, 2 oz, DB
- 1 x R-0706-C Silver Nitrate Reagent, 2 oz, DB

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

### PROCEDURE:

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

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

#### Sodium Chloride Test

NOTE: When sulfite content of sample water to be tested exceeds 10 ppm, the sulfite should be oxidized to prevent interference in test. A 25 mL water sample is first adjusted to the appropriate pH, then 1 mL (or 25 drops) = 7654\of R-0649 Hydrogen Peroxide Solution (sold separately) is added and thoroughly mixed. Continue with the rest of the procedure.

#### For 1 drop = 20 or 40 ppm Sodium Chloride

1. Select sample size.

NOTE: For 1 drop = 20 ppm, use 20.5 mL sample.  
For 1 drop = 40 ppm, use 10 mL sample.

2. Rinse and fill 25 mL sample tube (#91980) to desired mark (Step 1) with water to be tested.
3. Add 1 drop R-0630 Chromate Indicator. Swirl to mix. Sample will turn yellow (Fig. 1).
4. Add R-0706 Silver Nitrate Reagent dropwise, swirling and counting after each drop, until color changes from yellow to milky salmon (brick red) (Fig. 2).

NOTE: A white precipitate will form as R-0706 Silver Nitrate Reagent is added to the sample. Do not add enough R-0706 Silver Nitrate Reagent to give a brown color. First change from yellow to milky salmon (brick red) is the endpoint.

5. Multiply drops of R-0706 Silver Nitrate Reagent by desired equivalence factor (Step 1). Record as parts per million (ppm) sodium chloride (NaCl).

#### For 1 drop = 100, 200, or 800 ppm Sodium Chloride

1. Select sample size.

NOTE: For 1 drop = 100 ppm, use 4 mL sample (2 x 2 mL).  
For 1 drop = 200 ppm, use 2 mL sample.  
For 1 drop = 800 ppm, use 0.5 mL sample.

2. Using 3 mL pipet (#4078), add desired sample size (Step 1) to 25 mL sample tube (#91980). Dilute to 10 mL mark with distilled, deionized, or chloride-free water.
3. Add 1 drop R-0630 Chromate Indicator. Swirl to mix. Sample will be yellow (Fig. 1).
4. Add R-0706 Silver Nitrate Reagent dropwise, swirling and counting after each drop, until color changes from yellow to milky salmon (brick red) (Fig. 2).

NOTE: A white precipitate will form as R-0706 Silver Nitrate Reagent is added to the sample. Do not add enough R-0706 Silver Nitrate Reagent to give a brown color. First change from yellow to milky salmon (brick red) is the endpoint.

5. Multiply drops of R-0706 Silver Nitrate Reagent by desired equivalence factor (Step 1). Record as parts per million (ppm) sodium chloride (NaCl).



Fig. 1



Fig. 2



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