DROP TEST
SODIUM SULFITE (1 drop = 2 or 10 ppm)

COMPONENTS:

1 x 5104	**Instruction**
1 x 9198W	**Sample Tube, Graduated (25 mL) w/ cap & white dot, plastic**
1 x R-0638W-C	**Phenolphthalein Indicator, 2 oz w/ white cap, DB**
1 x R-0699-C	**Iodide Iodate Reagent, 2 oz, DB**
1 x R-0725-I	**Acid Starch Indicator Powder, 10g**
1 x R-0808-C	**Iodide Iodate 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 Sulfite Test

NOTE: Sample must be cooled to less than 100°F (38°C) to prevent high test results. Sample must be protected from air contact while cooling to prevent low test results.

For 1 drop = 2 ppm Sodium Sulfite

1. Collect water to be tested in a clean, preferably large-mouthed, bottle to overflowing. Immediately cap and cool to room temperature.
2. Rinse and fill 25 mL sample tube (#9198W) to 25 mL mark with cooled (room temperature) water to be tested.

NOTE: For results in grains per gallon (gpg), fill to 14.6 mL mark.

3. Add 1 drop R-0638W Phenolphthalein Indicator. Swirl to mix. Sample will turn pink (Fig. 1).
4. Add R-0725 Acid Starch Indicator Powder a dipper at a time, swirling after each dipper, until color changes from pink to colorless. Add 2 more dippers. Swirl until dissolved.
5. Add R-0808 Iodide Iodate Reagent dropwise, swirling and counting after each drop, until sample changes from colorless to a faint but permanent blue (Fig. 2).
6. Multiply drops of R-0808 Iodide Iodate Reagent by 2. Record as parts per million (ppm) sodium sulfite (Na_2SO_3).

NOTE: For 14.6 mL sample, multiply drops by 0.2. Record as grains per gallon (gpg) sodium sulfite (Na_2SO_3).

NOTE: For results as sulfite (SO_3^{2-}), multiply sodium sulfite (Na_2SO_3) concentration by 0.64.

NOTE: For results as sodium metabisulfite ($Na_2S_2O_5$), multiply sodium sulfite (Na_2SO_3) concentration by 0.754.

For 1 drop = 10 ppm Sodium Sulfite

1. Collect water to be tested in a clean, preferably large-mouthed, bottle to overflowing. Immediately cap and cool to room temperature.
2. Rinse and fill 25 mL sample tube (#9198W) to 25 mL mark with cooled (room temperature) water to be tested.

NOTE: For results in grains per gallon (gpg), fill to 14.6 mL mark.

3. Add 1 drop R-0638W Phenolphthalein Indicator. Swirl to mix. Sample will turn pink (Fig. 1).
4. Add R-0725 Acid Starch Indicator Powder a dipper at a time, swirling after each dipper, until color changes from pink to colorless. Add 2 more dippers. Swirl until dissolved.
5. Add R-0699 Iodide Iodate Reagent dropwise, swirling and counting after each drop, until sample changes from colorless to a faint but permanent blue (Fig. 2).
6. Multiply drops of R-0699 Iodide Iodate Reagent by 10. Record as parts per million (ppm) sodium sulfite (Na_2SO_3).

NOTE: For 14.6 mL sample, record drops as grains per gallon (gpg) sodium sulfite (Na_2SO_3).

NOTE: For results as sulfite (SO_3^{2-}), multiply sodium sulfite (Na_2SO_3) concentration by 0.64.

NOTE: For results as sodium metabisulfite ($Na_2S_2O_5$), multiply sodium sulfite (Na_2SO_3) concentration by 0.754.

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Fig. 1

Fig. 2