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Instructions

Instruction Number: 5104

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

COMPONENTS:

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

TO ORDER REPLACEMENT PARTS AND REAGENTS CALL TOLL-FREE 877-7WATER6 (877-792-8376) or [email us](mailto:email_us) with your requirements.

PROCEDURE:

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

For 1 drop = 2 ppm Na₂SO₃

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 should turn red.
4. Add R-0725 Acid Starch Indicator Powder a dipper at a time, swirling after each dipper, until color changes from red to colorless. Add 2 more dippers. Swirl until dissolved.
5. Add R-0808 Iodide Iodate Reagent dropwise, swirling and counting after each drop, until color changes from colorless to a faint but permanent blue. Always hold bottle in vertical position.

6. Multiply drops of R-0808 Iodide Iodate Reagent by 2. Record as parts per million (ppm) sodium sulfite.

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

NOTE: For results as sulfite, multiply sodium sulfite concentration by 0.64.

For 1 drop = 10 ppm Na₂SO₃

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 should turn red.
4. Add R-0725 Acid Starch Indicator Powder a dipper at a time, swirling after each dipper, until color changes from red to colorless. Add 2 more dippers. Swirl until dissolved.
5. Add R-0699 Iodide Iodate Reagent dropwise, swirling and counting after each drop, until color changes from colorless to a faint but permanent blue. Always hold bottle in vertical position.
6. Multiply drops of R-0699 Iodide Iodate Reagent by 10. Record as parts per million (ppm) sodium sulfite.

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

NOTE: For results as sulfite, multiply sodium sulfite concentration by 0.64.

03/11