

DROP TEST

HYDROGEN PEROXIDE (1 drop = 0.5 or 1%)

COMPONENTS:

1 x 4026	Dipper Spoon, 2 g, plastic, white
1 x 4029	Pipet, Calibrated (0.5 & 1.0 mL), plastic
1 x 4078	Pipet, Graduated (3 mL w/ 0.5 mL div), plastic
1 x 5312	Instruction
2 x 9198	Sample Tube, Graduated (25 mL) w/ cap, plastic
1 x R-0601-C-DB	Molybdate Reagent, 2 oz, DB
1 x R-0729-C-DB	Sulfuric Acid 50%*, 2 oz, DB
1 x R-0765-II	Potassium Iodide Crystals, 50 g
1 x R-0885-C	Thiosulfate 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.

Hydrogen Peroxide Test

For 1 drop = 0.5% Hydrogen Peroxide

- Using 3 mL pipet (#4078), add 2 mL water to be tested to a 25 mL sample tube (#9198). Dilute to 25 mL mark with distilled, deionized, or hydrogen peroxide-free water. Swirl to mix.
- Using 2 g dipper spoon (#4026), add 1 dipper R-0765 Potassium Iodide Crystals to second 25 mL sample tube. Dilute to 10 mL mark with distilled, deionized, or hydrogen peroxide-free water. Swirl until dissolved.
- Add 10 drops R-0729 Sulfuric Acid 50% to second 25 mL sample tube. Swirl to mix.

CAUTION: R-0729 Sulfuric Acid 50% is a strong acid. Handle carefully.

- Using 1.0 mL pipet (#4029), transfer 1.0 mL from first 25 mL sample tube to second 25 mL sample tube.

Instr. #5312

- Add 10 drops R-0601 Molybdate Reagent. Swirl to mix. Sample will turn yellow orange if hydrogen peroxide is present.
- Add R-0885 Thiosulfate Reagent dropwise, swirling and counting after each drop, until color changes from yellow orange to colorless.
- Multiply drops of R-0885 Thiosulfate Reagent by 0.5. Record as percent (%) hydrogen peroxide (H_2O_2).

For 1 drop = 1% Hydrogen Peroxide

- Using 3 mL pipet (#4078), add 1 mL water to be tested to a 25 mL sample tube (#9198). Dilute to 25 mL mark with distilled, deionized, or hydrogen peroxide-free water. Swirl to mix.
- Using 2 g dipper spoon (#4026), add 1 dipper R-0765 Potassium Iodide Crystals to second 25 mL sample tube. Dilute to 10 mL mark with distilled, deionized, or hydrogen peroxide-free water. Swirl until dissolved.
- Add 10 drops R-0729 Sulfuric Acid 50% to second 25 mL sample tube. Swirl to mix.
CAUTION: R-0729 Sulfuric Acid 50% is a strong acid. Handle carefully.
- Using 1.0 mL pipet (#4029), transfer 1.0 mL from first 25 mL sample tube to second 25 mL sample tube.
- Add 10 drops R-0601 Molybdate Reagent. Swirl to mix. Sample will turn yellow orange if hydrogen peroxide is present.
- Add R-0885 Thiosulfate Reagent dropwise, swirling and counting after each drop, until color changes from yellow orange to colorless.
- Record drops of R-0885 Thiosulfate Reagent as percent (%) hydrogen peroxide (H_2O_2).

*WARNING: Sulfuric Acid 50% (R-0729) contains 62% w/w sulfuric acid, a corrosive acid.



31 Loveton Circle, Sparks, MD 21152 USA
800-TEST KIT (837-8548) • 410-472-4340

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