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 5312	**Instruction**
1 x 6045	**Syringe, 3 mL**
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

1. Using 3 mL syringe (#6045), 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.
2. 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.
3. 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.

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

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

For 1 drop = 1% Hydrogen Peroxide

1. Using 3 mL syringe (#6045), 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.
2. 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.
3. 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.

4. Using 1.0 mL pipet (#4029), transfer 1.0 mL from first 25 mL sample tube to second 25 mL sample tube.
5. Add 10 drops R-0601 Molybdate Reagent. Swirl to mix. Sample will turn yellow orange if hydrogen peroxide is present.
6. Add R-0885 Thiosulfate Reagent dropwise, swirling and counting after each drop, until color changes from yellow orange to colorless.
7. 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.

taylor

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

082323