

# LAUNDRY WASHROOM KIT CHLORINE

Instr. #5307Y

## COMPONENTS:

- 1 x 4026 Dipper Spoon, 2 g, plastic, white
- 1 x 4029 Pipet, Calibrated (0.5 & 1.0 mL), plastic
- 1 x 5307Y Instruction
- 1 x 9009 Pipet, Calibrated (0.5 & 1.0 mL) w/ yellow cap, plastic
- 1 x 9198Y Sample Tube, Graduated (25 mL) w/ cap & yellow dot, plastic
- 1 x R-0600-C Orthotolidine\*, 2 oz
- 1 x R-0664-C Bleach Reagent #1, 2 oz
- 1 x R-0665S-II Bleach Reagent #2, 50 g
- 1 x R-0666-C Bleach Reagent #3, 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.

### Chlorine Bleach Test

#### For Working Bleach Solutions

1. Rinse and fill 25 mL sample tube (#9198Y) to 5 mL mark with water to be tested. Dilute to 10 mL mark with distilled, deionized, or tap water. Swirl to mix.
2. Using 1.0 mL pipet (#9009), add 1 dropperful (as much as can be drawn up by means of the bulb) R-0664 Bleach Reagent #1. Swirl to mix.
3. Using 2 g dipper spoon (#4026), add 1 level dipper R-0665S Bleach Reagent #2. Swirl until dissolved. Sample will turn brown (Fig. 1).
4. Add R-0666 Bleach Reagent #3 dropwise, swirling and counting after each drop, until color changes from brown to colorless.
5. Multiply drops of R-0666 Bleach Reagent #3 by 0.05. Record as percent (%) available chlorine ( $Cl_2$ ).

#### For Concentrated Bleach Solutions

1. Using 1.0 mL pipet (#4029), add exactly 0.5 mL concentrated (stock) bleach solution to a clean 25 mL sample tube (#9198Y). Dilute to 10 mL mark using distilled, deionized, or tap water. Swirl to mix.
2. Using 1.0 mL pipet (#9009), add 1 dropperful (as much as can be drawn up by means of the bulb) R-0664 Bleach Reagent #1. Swirl to mix.
3. Using 2 g dipper spoon (#4026), add 1 level dipper R-0665S Bleach Reagent #2. Swirl until dissolved. Sample will turn brown (Fig. 1).
4. Add R-0666 Bleach Reagent #3 dropwise, swirling and counting after each drop, until color changes from brown to colorless.
5. Multiply drops of R-0666 Bleach Reagent #3 by 0.5. Record as percent (%) available chlorine ( $Cl_2$ ).

### Chlorine Spot Test

#### To test cloth:

1. Place 1 drop R-0600 Orthotolidine on corner of laundered cloth.
2. If corner turns yellow, chlorine is present.

#### To test rinse:

1. Rinse and fill 25 mL sample tube (#9198Y) to 10 mL mark with water to be tested.
2. Using 1.0 mL pipet (#9009), add 0.5 mL R-0600 Orthotolidine. Swirl to mix.
3. If sample turns yellow (Fig. 2), chlorine is present.

\*WARNING: Orthotolidine (R-0600) contains 5-10% w/w hydrochloric acid, a corrosive acid, and 0.1-1% w/w orthotolidine, a suspected carcinogen.



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Fig. 1



Fig. 2