

## DROP TEST

### TOTAL CHLORINE (1 drop = 10 ppm)

**COMPONENTS:**

- 1 x 4026 Dipper Spoon, 2 g, plastic, white
- 1 x 4030 Pipet, Calibrated (0.5 & 1.0 mL) w/ cap, plastic
- 1 x 5005 Instruction
- 1 x 9198 Sample Tube, Graduated (25 mL) w/ cap, plastic
- 1 x R-0636-C Starch Indicator Solution, 2 oz, DB
- 1 x R-0664-C Bleach Reagent #1, 2 oz
- 1 x R-0665S-II Bleach Reagent #2 (crystals), 50 g
- 1 x R-0700-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.

**Total Chlorine Test**

1. Rinse and fill 25 mL sample tube (#9198) to 25 mL mark with water to be tested.
2. Using 1.0 mL pipet (#4030), 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 large dipper (#4026), add 1 level dipper R-0665S Bleach Reagent #2. Swirl until dissolved. Sample will turn deep yellow (Fig. 1) or brown (Fig. 2) if chlorine is present.
4. Add R-0700 Thiosulfate Reagent dropwise, swirling and counting after each drop, until color changes from deep yellow or brown to pale yellow (Fig. 3).

5. Add 10 drops R-0636 Starch Indicator Solution. Swirl to mix. Sample will turn blue (Fig. 4).
6. Continue adding R-0700 Thiosulfate Reagent dropwise, swirling and counting after each drop, until color changes from blue to colorless.
7. Multiply total drops of R-0700 Thiosulfate Reagent (Steps 4 & 6) by 10. Record as parts per million (ppm) total available chlorine ( $Cl_2$ ).



Fig. 1



Fig. 2



Fig. 3

(OVER)

**DROP TEST**  
**TOTAL CHLORINE (1 drop = 10 ppm)**

Instr. #5005



**Fig. 4**



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