

# DROP TEST

## TOTAL HARDNESS (1 drop = 10 ppm)

Instr. #5067B

### COMPONENTS:

- 1 x 5067B Instruction
- 1 x 9198B Sample Tube, Graduated (25 mL) w/ cap & blue dot, plastic
- 1 x R-0619B-C Hardness Buffer, 2 oz w/ blue cap, DB
- 1 x R-0620B-I Hardness Indicator Powder, 10 g w/ blue dot
- 1 x R-0683-C Hardness 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 Hardness Test

1. Rinse and fill 25 mL sample tube (#9198B) to 25 mL mark with water to be tested.
2. Add 5 drops R-0619B Hardness Buffer. Swirl to mix.
3. Add 1 dipper R-0620B Hardness Indicator Powder. Swirl until dissolved. Sample will turn red (Fig. 1) if hardness is present.
4. Add R-0683 Hardness Reagent dropwise, swirling and counting after each drop, until color changes from red to blue (Fig. 2).

5. Multiply drops of R-0683 Hardness Reagent by 10. Record as parts per million (ppm) total hardness as calcium carbonate ( $\text{CaCO}_3$ ).



Fig. 1



Fig. 2



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