

# Richard hourigan, inc.

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Responding to the needs of industry since 1973

## Instructions

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### Instruction Number: 5235

DROP TEST  
CALCIUM HARDNESS (1 drop = 10 ppm)

#### COMPONENTS:

1 x 5235	Instruction
1 x 9198B	Sample Tube, Graduated, 25 mL, plastic w/cap and blue dot
1 x R-0011P-I	Calcium Indicator Powder, 10 g
1 x R-0653-2-C	Calcium Buffer, 2 oz, DB
1 x R-0683-C	Hardness Reagent, 2 oz, DB

TO ORDER REPLACEMENT PARTS AND REAGENTS CALL TOLL-FREE  
877-7WATER6 (877-792-8376) or [email us](mailto:info@richardhourigan.com) with your requirements.

#### PROCEDURE:

CAREFULLY READ AND FOLLOW PRECAUTIONS ON REAGENT  
LABELS. KEEP REAGENTS AWAY FROM CHILDREN.

1. Rinse and fill 25 mL sample tube (#9198B) to 25 mL  
mark with water to be tested.

NOTE: For results in grains per gallon (gpg), fill to  
14.6 mL mark.

2. Add 10 drops R-0653-2 Calcium Buffer. Swirl to  
mix.
3. Add 1 dipper R-0011P Calcium Indicator Powder.  
Swirl until dissolved. Sample will turn red if  
calcium hardness is present.
4. Add R-0683 Hardness Reagent dropwise, swirling and  
counting after each drop, until color changes from  
red to blue. Always hold bottle in vertical  
position.
5. Multiply drops of R-0683 Hardness Reagent by 10.  
Record as parts per million (ppm) calcium hardness  
as calcium carbonate.

NOTE: For 14.6 mL sample, record drops as grains per  
gallon (gpg) calcium hardness as calcium carbonate.