

Instr. #5031

**DROP TEST**  
**SODIUM CHLORIDE (1 drop = 200 ppm)**  
**(SALT WATER)**

**COMPONENTS:**

|            |  |
|------------|--|
| 1 x 5031   | Instruction                                  |
| 1 x 9198   | Sample Tube, Graduated, 25 mL, plastic w/cap |
| 1 x R-0630 | Chromate Indicator, DB                       |
| 1 x R-0718 | Silver Nitrate Reagent, DB                   |

**TO ORDER REPLACEMENT PARTS AND REAGENTS CALL TOLL-FREE 800-837-8548.**

**PROCEDURE:**

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

**For 1 drop = 200 ppm Sodium Chloride**

1. Rinse and fill sample tube (#9198) to 10 mL mark with water to be tested.
2. Add 1 drop R-0630 Chromate Indicator. Swirl to mix. Sample should turn yellow.
3. Add R-0718 Silver Nitrate Reagent dropwise, swirling and counting after each drop, until color changes from yellow to a milky salmon (brick) red. Always hold bottle in vertical position.

**NOTE:** Do not add enough R-0718 Silver Nitrate Reagent to give a brown color. First change from yellow to a milky salmon (brick) red is the endpoint.

4. Multiply drops of R-0718 Silver Nitrate Reagent by 200. Record as parts per million (ppm) salt as sodium chloride (salt water).
5. To calculate required dosage, see treatment table on reverse.



## To Increase Salt Level

### Volume of Water - U.S. Gallons

| Desired increase in ppm | 400 gallons | 1,000 gallons | 5,000 gallons | 10,000 gallons | 20,000 gallons | 50,000 gallons | 100,000 gallons |
|-------------------------|-------------|---------------|---------------|----------------|----------------|----------------|-----------------|
| 1500 ppm                | 5.01 lb     | 12.5 lb       | 62.6 lb       | 125 lb         | 250 lb         | 626 lb         | 1252 lb         |
| 3000 ppm                | 10.0 lb     | 25.0 lb       | 125 lb        | 250 lb         | 501 lb         | 1252 lb        | 2504 lb         |
| 4000 ppm                | 13.4 lb     | 33.4 lb       | 167 lb        | 334 lb         | 668 lb         | 1669 lb        | 3338 lb         |
| 4500 ppm                | 15.0 lb     | 37.6 lb       | 188 lb        | 376 lb         | 751 lb         | 1878 lb        | 3755 lb         |
| 5000 ppm                | 16.7 lb     | 41.7 lb       | 209 lb        | 417 lb         | 835 lb         | 2086 lb        | 4173 lb         |

(rev. 5/15)

### Volume of Water - Liters

| Desired increase in ppm | 2,000 L | 4,000 L | 20,000 L | 40,000 L | 80,000 L | 100,000 L | 400,000 L |
|-------------------------|---------|---------|----------|----------|----------|-----------|-----------|
| 1500 ppm                | 3.00 kg | 6.00 kg | 30.0 kg  | 60.0 kg  | 120 kg   | 150 kg    | 600 kg    |
| 3000 ppm                | 6.00 kg | 12.0 kg | 60.0 kg  | 120 kg   | 240 kg   | 300 kg    | 1200 kg   |
| 4000 ppm                | 8.00 kg | 16.0 kg | 80.0 kg  | 160 kg   | 320 kg   | 400 kg    | 1600 kg   |
| 4500 ppm                | 9.00 kg | 18.0 kg | 90.0 kg  | 180 kg   | 360 kg   | 450 kg    | 1800 kg   |
| 5000 ppm                | 10.0 kg | 20.0 kg | 100 kg   | 200 kg   | 400 kg   | 500 kg    | 2000 kg   |

(rev. 5/15)