

## COLOR COMPARISON TEST ORTHOPHOSPHATE (0-25 ppm)

### COMPONENTS:

|               |  |
|---------------|--|
| 1 x 2269      | Cap, Dispenser, 18 mm, white (or #2280, 28 mm, white)                    |
| 5 x 4023      | Test Tube, Calibrated (5 mL), glass                                      |
| 1 x 4027      | Funnel, 58 mm, plastic   |
| 1 x 5161      | Instruction  |
| 1 x 6003      | Brush, Test Tube   |
| 1 x 6009      | Filter Paper, 9.0 cm, #610, 100/box                                      |
| 2 x 9021      | Test Tube, Mixing, Calibrated (5, 10, 14, 15, 17.5 mL), glass w/ stopper |
| 1 x 9111      | Slide Comparator, Orthophosphate, Stannous Chloride, 0-25 ppm            |
| 1 x 9190      | Base, Slide Comparator (for test tubes)                                  |
| 1 x R-0601-C  | Molybdate Reagent*, 2 oz (or R-0601-E, 16 oz)                            |
| 1 x R-0602P-I | Stannous Chloride Powder, 10 g   |

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.

#### Orthophosphate Test

1. Filter water to be tested to clarify.
2. Rinse and fill one mixing test tube (#9021) to 10 mL mark with filtered sample.
3. Dilute to 14 mL mark with distilled or deionized water. Stopper and mix. Remove stopper. Transfer to two 5 mL test tubes (#4023) to 5 mL mark.
4. Wipe dry and place in two holes adjacent to center hole of comparator base (#9190).

Instr. #5161

5. Rinse and fill mixing test tube to 10 mL mark with filtered sample water.
6. Cap R-0601 Molybdate Reagent with dispenser cap (#2269 or #2280). Add R-0601 Molybdate Reagent to 14 mL mark. Stopper and mix. Remove stopper.
7. Add 1 level dipper R-0602P Stannous Chloride Powder. Stopper and mix.
8. Wipe dry and place in center hole of comparator base (#9190). WAIT 1 MINUTE. Read before 5 minutes.
9. Place Slide on comparator base. Match color in center test tube with a color standard. The Slide is in proper alignment for a color match when a white line on the Slide is directly above the white line on the comparator base. Record as parts per million (ppm) orthophosphate ( $\text{PO}_4^{3-}$ ).

NOTE: If sample color matches or is deeper than highest color standard: Dilute sample with distilled, deionized, or phosphate-free water. Repeat test. For sample diluted with 1 part water, multiply reading by 2; for 2 parts, multiply by 3, etc.

\*WARNING: Molybdate Reagent (R-0601) contains 5-10% w/w sulfuric acid, a corrosive acid.



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