

When taking a reading, hold DipCell comparator so that you are looking above the horizon with sunlight coming over your shoulder.

Free Chlorine

Cl<sub>2</sub>

- 1 Fill DipCell to the fill line with sample.
- 2 Add 5 drops of DPD 1A (P-6740) and 5 drops of \*DPD 1B (P-6741). Cap and invert to mix.
- 3 Match sample color to a color standard. Record result as ppm Free Chlorine.

Total Chlorine

Cl<sub>2</sub>

- 1 Remove cap and add 5 drops of DPD 3 (P-6743).
- 2 Cap and invert to mix.
- 3 Match sample color to a color standard. Record result as ppm Total Chlorine.

**NOTE:** Total Chlorine - Free Chlorine = Combined Chlorine

pH

- 1 If DipCell is empty, fill to line with sample.
- 2 Add 5 drops of pH Indicator (P-7026). Cap and invert to mix.
- 3 Match sample color to a color standard. Record as pH. If pH is not within desired range, retain sample for Acid/Base Demand test.

Acid  
Base

- 1 Remove cap from DipCell.
- 2 If pH is HIGH: Add \*Acid (P-6068), one drop at a time, and mix until color matches desired pH. See chart for dosage recommendation.
- 3 If pH is LOW: Add Base (P-6460), one drop at a time and mix until color matches desired pH. See chart for dosage recommendation.

Total Alkalinity

Alk

- 1 Fill tube (0929) to the upper X10 line with sample.
- 2 Add 5 drops of \*Alk 1 (P-7028). Swirl to mix.
- 3 Add \*Alk Titrant (P-6111) dropwise while swirling until color changes from blue-green to RED. Record total drops.
- 4 Each drop equals 10 ppm Total Alkalinity.

**NOTE:** For HIGH range tests: Fill to X20 line in Step 1. Each drop = 20 ppm Alkalinity.

Calcium Hardness

Hard

- 1 Fill tube (0929) to the lower X20 line with sample.
- 2 Add 5 drops of \*Hard 1 (P-4259) and 5 drops of \*Hard 2 (P-7030). Swirl to mix.
- 3 Add Hard Titrant (P-7031) dropwise while swirling until color changes from red through purple to BLUE. Record total drops.
- 4 Each drop equals 20 ppm Ca Hardness.

**NOTE:** For LOW range tests: Fill to X10 line in Step 1. Each drop = 10 ppm Calcium Hardness

Cyanuric Acid

CYA

- 1 Fill round tube to top line with sample.
- 2 Add one \*CYA tablet (6994A). Cap and shake until disintegrated.
- 3 Insert square tube into round tube.
- 4 Viewing from above, lower the square tube until the black dot just barely disappears. Read result in ppm CYA at water level WITHIN SQUARE TUBE.

**NOTE:** To read above 100 ppm retest by adding sample to lower line, add tap water to top line. Multiply result by 2.

\*Potential Health Hazard: Read SDS at [www.lamotte.com](http://www.lamotte.com).

Emergency Information for all LaMotte reagents: Chem-Tel (US, 1-800-255-3924) (International, call collect, 813-248-0585).

LaMotte Company • Chestertown, Maryland 21620

67013-01 • 04/25/25