

Water Safety Month 2023

Taylor Testing Instructions

Chlorine- DROPS

1. Rinse the comparator tubes several times with sample line attached to the controller-or water from elbow depth directly from the pool to set line amount (9mL).
2. Add 5 drops of R-001 reagent to water in the tube.
3. Add 5 drops of R-002 reagent to water in a tube.
4. Replace cap and invert several times to mix.
5. Compare color to Cl scale on front of the tube using natural light against a light backdrop.
6. This is your **FREE ACTIVE CHLORINE PPM.**



Combined Chlorine- DROPS

1. Add 5 Drops of R-003 reagent to the above mix and observe color change (if any).
2. This is your **TOTAL CHLORINE PPM.**



Chlorine- POWDER

1. Rinse and fill large comparator tubes several times with sample line attached to the controller-or water elbow depth directly from the pool to desired mark. Note: For 1 drop = 0.2 ppm, use 25mL sample. For 1 drop = 0.5 ppm, use 10mL sample.
2. Add 2 dippers R-0870 Power.
3. Swirl until dissolved. If free chlorine is present, the sample will turn pink.
4. Add R-871 reagent drops, swirling and counting after each drop until water changes from pink to colorless.
5. Multiply drops in step 4 by 1 drop = 0.2 ppm, use 25mL sample. For 1 drop = 0.5 ppm, use 10mL sample.
6. This is your **TOTAL CHLORINE PPM.**

Combined Chlorine-POWDER

1. Add 5 drops of R-003 reagents, Swirl to mix. If combined chlorine is present the sample will turn pink.
2. Add R-0871 drops, swirling until color changes from pink to colorless.
3. Multiply drops in step 2 by 1 drop = 0.2 ppm, use 25mL sample. For 1 drop = 0.5 ppm, use 10mL sample.
4. This is your **TOTAL CHLORINE PPM.**



Troubleshooting Tips

Sample Bleaching out (flashing clear)- High Sanitizer levels ↑ 10ppm may cause total or partial bleaching, resulting in false-low readings.

Sample Turning Cloudy- Cloudiness is caused by a high level of hardness ↑ 500ppm that precipitates out as calcium and/or salt.

Blue/Purple endpoint- A high sanitizer level ↑ 10ppm is interfering.

*Always test directly from the sample line at the controller.

*VivoAquatics prefers digital test kits vs manual test kits.

*Make sure to follow property policies on testing chemicals.

pH

1. Rinse the comparator tubes several times with sample line attached to the controller-or water from elbow depth directly from the pool to set line amount (44mL).
2. Add 5 drops of R-004 (Phenol Red) to water .
3. Replace cap and invert several times to mix
4. Compare color to pH scale on front of the tube using natural light against a light background.
5. This is your **TOTAL pH PPM.**

Alkalinity

1. Rinse the comparator tubes several times with sample line attached to the controller-or water from elbow depth directly from the pool to set line amount (25mL)
2. Add 2 drops R-007. Swirl to mix.
3. Add 5 drops R-008. Swirl to mix. Sample should turn green.
4. Add R-009 dropwise. After each drop count and swirl to mix until color changes from Green to Red.
5. Multiple number of drops by 10.
6. This is your **TOTAL ALKALINITY PPM.**

Calcium Hardness Test

1. Rinse the comparator tubes several times with sample line attached to the controller-or water from elbow depth directly from the pool to set line amount (25mL)
2. Add 20 drops R-0010. Swirl to mix.
3. Add 3 drops R-0011L. Swirl to mix. Sample should turn red.
4. Add R-0012 dropwise. After each drop count and swirl to mix until color changes from red to blue.
5. Multiple number of drops by 10.
6. This is your **CALCIUM HARDNESS PPM.**

Cyanuric Acid

1. Rinse and fill CYA dispensing bottle (#9191) to 7mL mark with water from sample line attached to controller- or water from elbow depth directly from the pool.
2. Add R-0013 to the 14mL mark. Cap and mix for 30 seconds.
3. Slowly transfer cloudy water solution to small comparator tube until black dot on bottom of tube disappears when viewed from top.
4. Read the tube at liquid level.
5. This is your **CYANURIC ACID PPM.**