Guidebook (#2004B) amplifies these instructions and should be read to use this product properly.

Counterlab Rx 2™ (using FAS-DPD)

1. Keep reagents out of reach of children.
2. Read precautions on all labels.
3. Replace reagents once each year.
4. Rinse tubes before and after each test.
5. Hold dropper bottle vertically when dispensing reagent.
6. Turn off SpeedStir and Gepe Slim Lite after use.
7. Do not lose stirring bar when discarding solution.
8. Keep lab clean and dry.

Instr. #5242

Free & Combined Chlorine Test

1. Using SampleSizer **(#6190),** rinse and fill sample tube (#9198L) to desired mark with water to be tested.

NOTE: For normal levels, use 25 mL sample where 1 drop = 0.2 ppm.
For high levels, use 10 mL sample where 1 drop = 0.5 ppm.

2. Carefully place stirring bar (#6101) in sample tube. Add 2 dippers R-0870. Swirl for 5 seconds. R-0870 will not dissolve completely, but this will not affect test results.
3. Wipe dry and place on SpeedStir. Turn on SpeedStir. If free chlorine is present, sample will turn pink.

NOTE: If pink color disappears, add R-0870 until color turns pink.

4. Add R-0871 dropwise, counting after each drop, until color changes from pink to colorless.
5. Multiply drops in Step 4 by drop equivalence (Step 1). Record as parts per million (ppm) free chlorine (Cl_2).
6. Turn on SpeedStir. Add 5 drops R-0003. If combined chlorine is present, sample will turn pink.
7. Add R-0871 dropwise, counting after each drop, until color changes from pink to colorless.
8. Multiply drops in Step 7 by drop equivalence (Step 1). Record as ppm combined chlorine (Cl_2).

Total Bromine Test

1. For approximate results as bromine, multiply free chlorine concentration by 2.

pH Test

1. Using SampleSizer **(#6191),** rinse and fill sample tube (#9198L) to 44 mL mark with water to be tested.
2. Carefully place stirring bar (#6101) in sample tube. Wipe dry and place on SpeedStir. Turn on SpeedStir and Gepe Slim Lite (#9199).
3. Add 5 drops R-0004.
4. Match color with color standard (#6125T). Record as pH units and save sample if pH needs adjustment. If sample color is between two values, pH is average of the two. To LOWER pH: See Acid Demand Test. To RAISE pH: See Base Demand Test.

Acid Demand Test

1. Use treated sample from pH test.
2. Turn on SpeedStir and Gepe Slim Lite. Add R-0005 dropwise. After each drop, count, and compare with color standards until desired pH is matched. See Treatment Tables in guidebook (#2004B) to continue.

Base Demand Test

1. Use treated sample from pH test.
2. Turn on SpeedStir and Gepe Slim Lite. Add R-0006 dropwise. After each drop, count, and compare with color standards until desired pH is matched. See Treatment Tables in guidebook (#2004B) to continue.

Total Alkalinity (TA) Test

1. Using SampleSizer **(#6190),** rinse and fill sample tube (#9198L) to 25 mL mark with water to be tested.*
2. Carefully place stirring bar (#6101) in sample tube. Wipe dry and place on SpeedStir. Turn on SpeedStir.
3. Add 2 drops R-0007.
4. Add 5 drops R-0008. Sample will turn green.
5. Add R-0009 dropwise, counting after each drop, until color changes from green to red.
6. Multiply drops in Step 5 by 10. Record as parts per million (ppm) total alkalinity as calcium carbonate ($CaCO_3$).

***When high TA is anticipated**: Use 10 mL sample, 1 drop R-0007, 3 drops R-0008, and multiply drops in Step 6 by 25.

Calcium Hardness (CH) Test

1. Using SampleSizer **(#6190),** rinse and fill sample tube (#9198L) to 25 mL mark with water to be tested.*
2. Carefully place stirring bar (#6101) in sample tube. Wipe dry and place on SpeedStir. Turn on SpeedStir.
3. Add 20 drops R-0010.

NOTE: To save time, in place of 20 drops, add 1.0 mL R-0010 using 1.0 mL pipet (#9007).

4. Add 5 drops R-0011L. If calcium hardness is present, sample will turn red.
5. Add R-0012 dropwise, counting after each drop, until color changes from red to blue.
6. Multiply drops in Step 5 by 10. Record as parts per million (ppm) calcium hardness as calcium carbonate ($CaCO_3$).

***When high CH is anticipated**: Use 10 mL sample, 10 drops R-0010 (or 0.5 mL R-0010), 3 drops R-0011L, and multiply drops in Step 6 by 25.

Cyanuric Acid (CYA) Test

1. Rinse and fill CYA cylinder (#4088) to "A" mark with water to be tested.
2. Add R-0013 to "B" mark. Move test stick up and down to mix for 30 seconds. WAIT 2 MINUTES. Read before 5 minutes.
3. Raise test stick, then slowly lower until black dot on test stick just disappears when viewed from top.
4. Read test stick at liquid level. Record as parts per million (ppm) cyanuric acid (CYA).

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Video demonstrations of all tests are posted on www.taylortechnologies.com.