### Colorimeter Series

Alkalinity Total 250
Range(s): 0-250 ppm CaCO<sub>3</sub>, 0-305 ppm HCO<sub>3</sub>, 0-150 ppm CO<sub>3</sub><sup>2-</sup>



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- Turn on the Colorimeter.
- Select a test menu (ALL TESTS, RECENT TESTS, or FAVORITES) containing Alkalinity Total 250 using **4>**.
- 3. Select Alkalinity Total 250 using ▲▼; then press ENTER **②**.
- Select a chemical form (CaCO<sub>3</sub>, HCO<sub>3</sub>, CO<sub>3</sub>) for expression of test results using **AV**.

- 5. Rinse and fill 25 mm sample cell to 10 mL mark with sample; then cap.
- 6. Insert sample cell into sample cell compartment. Align marks per User's Manual.
- 7. Select ZERO using **♦**; then press ENTER **②**. Zero will be displayed
- 8. Remove sample cell from sample cell compartment: then remove cap.

- 9. Add 1 drop Alkalinity Total 250 Reagent A; then swirl to mix thoroughly.
- 10. Add 1 mL Alkalinity Total 250 Reagent B; then cap and swirl to mix thoroughly.
- 11. Insert sample cell into sample cell compartment. Align marks.
- 12. Select READ using **♦**; then press ENTER **⑤**. The instrument will read the sample and the result will be displayed.

# Interferences

The following analytes were tested to the levels listed and found not to cause any interference up to the specified values:

Biguanide - 50 ppm Bromine – 10 ppm

Chlorine – 10 ppm Copper -0.5 ppm

Cyanuric Acid – 200 ppm

Hardness, Calcium (CaCO<sub>3</sub>) – 1000 ppm Iron, Ferric – 0.5 ppm Iron, Ferrous – 0.5 ppm

#### Bromocresol Green **Test Method**

Bromocresol green, a pH-dependent indicator, is used to determine concentrations of alkalinity. Differing concentrations of alkalinity alter the pH and therefore change the color of the bromocresol green. This color change is proportional to the concentration of alkalinity in a sample.

### **Estimated Detection Limit**

2 ppm total alkalinity as CaCO<sub>3</sub>

# Precision

Using two lots of reagent and an alkalinity standard solution of 100 ppm total alkalinity as CaCO<sub>3</sub> an individual analyst obtained a standard deviation with the instrument of ± 1 ppm total alkalinity as CaCO<sub>3</sub>. (over)

#### Instruction #5078

### **Application**

Recreational Water

### **Ordering Info**

#### Reagent Pack

K-8024 Alkalinity Total 250

Formulated for exclusive use with Taylor's TTi® Colorimeter.

#### **Reagent Pack Components**

R-8024A Alkalinity Total 250 - Reagent A

R-8024B Alkalinity Total 250 - Reagent B

