P/T Alkalinity Drop Count Test Procedure

1 drop = 10 or 50 ppm as CaCO₃

For best accuracy (1) ensure accurate sample size. (2) Hold dropper bottle vertically, not at an angle.

1. Rinse vial 3 times with the solution to be tested. Fill vial to 25 mL with sample.

2. Add 3 drops of Phenolphthalein Indicator (PH1605) and swirl to mix. The sample should turn pink.

3. Add Alkalinity Titrant drop-wise, while swirling, until the sample color changes from pink to colorless. Record the number of drops as P-Alkalinity.

4. Add 3 drops of Total Alkalinity Indicator (AI6925) and swirl to mix. The sample should turn green.

5. Add Alkalinity Titrant drop-wise, while swirling, until the sample color turns from green to red. Count the number of drops. Record the total number of drops (from steps 3 & 5) as T-Alkalinity.

6. Record results.
   - SA1555 (low)
     # of drops x 10 = ppm as CaCO₃
   - SA1595 (high)
     # of drops x 50 = ppm as CaCO₃
   - OH Alkalinity = (2 x P) - M

Safety Tips
- Wear appropriate safety equipment.
- Read MSDS before use.

Tech Tips
- Be sure there is adequate lighting during testing.
- Rinse test vial 3 times with solution to be tested.
- Hold reagent bottles vertically for best results.
- Make sure you have an accurate sample.