DROP TEST P/T ALKALINITY (1 drop = 10 ppm)

COMPONENTS:

1 x 5229C Instruction

1 x 9198G Sample Tube, Graduated (25 mL) w/cap and green dot, plastic

1 x R-0638G-C Phenolphthalein Indicator, 2 oz w/ green cap, DB

1 x R-0645-C Total Alkalinity Indicator, 2 oz. DB 1 x R-0724-C Hydrochloric Acid .12N, 2 oz. DB

TO ORDER REPLACEMENT PARTS AND REAGENTS CALL TOLL-FREE 800-TEST KIT (800-837-8548).

PROCEDURE:

CAREFULLY READ AND FOLLOW PRECAUTIONS ON REAGENT LABELS. KEEP REAGENTS AWAY FROM CHILDREN.

NOTE: When dispensing reagents from dropper bottles, always hold bottle in a vertical position.

P/T Alkalinity Test

1. Rinse and fill 25 mL sample tube (#9198G) to 25 mL mark with water to be tested.

NOTE: For results in grains per gallon (gpg), fill to 14.6 mL mark.

- 2. Add 3 drops R-0638G Phenolphthalein Indicator. Swirl to mix. Sample will turn pink (Fig. 1) if P alkalinity is present—proceed to Step 3. If sample is colorless. proceed to Step 4.
- 3. Add R-0724 Hydrochloric Acid .12N dropwise, swirling and counting after each drop, until color just changes from pink to colorless. Record drops as P reading.

- 4. Add 5 drops R-0645 Total Alkalinity Indicator, Swirl to mix, Sample will turn green (Fig. 2).
- 5. Add R-0724 Hydrochloric Acid .12N dropwise, swirling and counting after each drop, until color changes from green to red (Fig. 3). Record total drops (Steps 3 & 5) as T reading.
- 6. Multiply P reading by 10. Record as parts per million (ppm) P alkalinity as calcium carbonate (CaCO_a). Multiply T reading by 10. Record as ppm T alkalinity as CaCO_a.

For 14.6 mL sample, record P reading as grains per gallon (gpg) P alkalinity as calcium carbonate (CaCO₂). Record T reading as gpg T alkalinity as CaCO...



Fig. 1



Fig. 2



Fig. 3