DROP TEST
P/M & P/T ALKALINITY (1 drop = 10 or 50 ppm)

Instr. #5085

COMPONENTS:

1 x 5085	Instruction
1 x 9198G	Sample Tube, Graduated (25 mL) w/ cap & green dot, plastic
1 x R-0637-C	Methyl Orange Indicator, 2 oz, DB
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
1 x R-0735G-C	Hydrochloric Acid .6N, 2 oz w/ green cap, 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/M Alkalinity Test

NOTE: For 1 drop = 10 ppm, use R-0724 Hydrochloric Acid .12N.
For 1 drop = 50 ppm, use R-0735G Hydrochloric Acid .6N.

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 or R-0735G Hydrochloric Acid .6N dropwise, swirling and counting after each drop, until color just changes from pink to colorless. Record drops as P reading.

4. Add 3 drops R-0637 Methyl Orange Indicator. Swirl to mix. Sample will turn yellow (Fig. 2).

5. Add R-0724 Hydrochloric Acid .12N or R-0735G Hydrochloric Acid .6N dropwise, swirling and counting after each drop, until color changes from yellow to orange (salmon pink) (Fig. 3). Record total drops (Steps 3 & 5) as M reading.

6. If R-0724 Hydrochloric Acid .12N is used, multiply P reading by 10. Record as parts per million (ppm) P alkalinity as calcium carbonate ($CaCO_3$). Multiply M reading by 10. Record as ppm M alkalinity as $CaCO_3$.

NOTE: For 14.6 mL sample, record P reading as grains per gallon (gpg) P alkalinity as calcium carbonate ($CaCO_3$). Record M reading as gpg M alkalinity as $CaCO_3$.

If R-0735G Hydrochloric Acid .6N is used, multiply P reading by 50. Record as parts per million (ppm) P alkalinity as calcium carbonate ($CaCO_3$). Multiply M reading by 50. Record as ppm M alkalinity as $CaCO_3$.

NOTE: For 14.6 mL sample, multiply P reading by 5. Record as grains per gallon (gpg) P alkalinity as calcium carbonate ($CaCO_3$). Multiply M reading by 5. Record as gpg M alkalinity as $CaCO_3$.

(OVER)

Fig. 1

Fig. 2

Fig. 3

DROP TEST
P/M & P/T ALKALINITY (1 drop = 10 or 50 ppm)

Instr. #5085

P/T Alkalinity Test

NOTE: For 1 drop = 10 ppm, use R-0724 Hydrochloric Acid .12N.
For 1 drop = 50 ppm, use R-0735G Hydrochloric Acid .6N.

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 or R-0735G Hydrochloric Acid .6N 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. 4).

5. Add R-0724 Hydrochloric Acid .12N or R-0735G Hydrochloric Acid .6N dropwise, swirling and counting after each drop, until color changes from green to red (Fig. 5). Record total drops (Steps 3 & 5) as T reading.

6. If R-0724 Hydrochloric Acid .12N is used, multiply P reading by 10. Record as parts per million (ppm) P alkalinity as calcium carbonate ($CaCO_3$). Multiply T reading by 10. Record as ppm T alkalinity as $CaCO_3$.

NOTE: For 14.6 mL sample, record P reading as grains per gallon (gpg) P alkalinity as calcium carbonate ($CaCO_3$). Record T reading as gpg T alkalinity as $CaCO_3$.

If R-0735G Hydrochloric Acid .6N is used, multiply P reading by 50. Record as parts per million (ppm) P alkalinity as calcium carbonate ($CaCO_3$). Multiply T reading by 50. Record as ppm T alkalinity as $CaCO_3$.

NOTE: For 14.6 mL sample, multiply P reading by 5. Record as grains per gallon (gpg) P alkalinity as calcium carbonate ($CaCO_3$). Multiply T reading by 5. Record as gpg T alkalinity as $CaCO_3$.

Fig. 4

Fig. 5

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6/17