

DROP TEST

P/M & P/T ALKALINITY (1 drop = 10 ppm)

Instr. #5067G

COMPONENTS:

- | | |
|---------------|--|
| 1 x 5067G | 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-A | Phenolphthalein Indicator, .75 oz w/ green cap, DB |
| 1 x R-0645-C | Total Alkalinity Indicator, 2 oz, DB |
| 1 x R-0687G-C | Sulfuric Acid .12N, 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

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-0687G Sulfuric 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-0637 Methyl Orange Indicator. Swirl to mix. Sample will turn yellow (Fig. 2).

5. Add R-0687G Sulfuric Acid .12N 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. 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 T reading as gpg T alkalinity as CaCO_3 .

(OVER)



Fig. 1



Fig. 2



Fig. 3

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P/M & P/T ALKALINITY (1 drop = 10 ppm)

Instr. #5067G

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. 4) if P alkalinity is present—proceed to Step 3. If sample is colorless, proceed to Step 4.
3. Add R-0687G Sulfuric 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. 5).
5. Continue adding R-0687G Sulfuric Acid .12N dropwise, swirling and counting after each drop, until color changes from green to red (Fig. 6). 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_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 .



Fig. 4



Fig. 5



Fig. 6



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