

ALKALINITY IN WATER TEST KIT

CODE 7240-01

QUANTITY	CONTENTS	CODE
15 mL	*Phenolphthalein Indicator, 0.5%	*2258-E
15 mL	Total Alkalinity Indicator	2786-E
2 x 30 mL	*Sulfuric Acid, 0.12N	*7748WT-G
1	Test Tube, 5-10-25 mL, plastic, w/cap	0715

*WARNING: Reagents marked with an * are considered to be potential health hazards. To view or print a Material Safety Data Sheet (MSDS) for these reagents see MSDS CD or www.lamotte.com. To obtain a printed copy, contact LaMotte by e-mail, phone or fax.

To order individual reagents or test kit components, use the specified code number.

NOTE: This test allows the analyst to use different sample volumes to vary equivalencies. Select the appropriate sample volume from the table below and add reagents as specified.

SAMPLE SIZE	EQUIVALENCE
25 mL	1 drop = 10 ppm
10 mL	1 drop = 25 ppm
5 mL	1 drop = 50 ppm

PROCEDURE

PHENOLPHTHALEIN (P) ALKALINITY

1. Rinse sample tube with sample water. Fill with desired sample size selected from table above.
2. Add *Phenolphthalein Indicator, 0.5% (2258) as follows:

25 mL sample	2 drops
10 mL sample	1 drop
5 mL sample	1 drop

Mix. Solution will turn pink if P alkalinity is present. If solution is colorless, P alkalinity is zero; proceed to Step 5.
3. While gently swirling tube, add *Sulfuric Acid, 0.12N (7748WT), one drop at a time, until pink color disappears. Count the number of drops added. Hold bottle vertically.
4. Multiply number of drops used in Step 3 as follows:

25 mL sample	multiply by 10
10 mL sample	multiply by 25
5 mL sample	multiply by 50

Record as ppm P Alkalinity as CaCO_3 .
DO NOT DISCARD SAMPLE IF TESTING FOR TOTAL (T) ALKALINITY.

TOTAL (T) ALKALINITY

5. To sample from Step 4 add Total Alkalinity Indicator (2786) as follows:

25 mL sample	3 drops
10 mL sample	2 drops
5 mL sample	2 drops

Mix. Solution will turn green.
6. While gently swirling tube, add *Sulfuric Acid, 0.12N (7748WT), one drop at a time, until green color changes to red. Count the number of drops added. Hold bottle vertically.
7. Multiply number of drops used in Step 6 as follows:

25 mL sample	multiply by 10
10 mL sample	multiply by 25
5 mL sample	multiply by 50

Add this result to the P Alkalinity from Step 4. Record as ppm T Alkalinity as CaCO_3 .