

**ALKALINITY (P & M)**

K-0020/25

1. Fill the reaction vial with the water sample to the 25 ml mark.
2. Add 5-10 drops of the Phenolphthalein indicator solution.
3.
  - a. If the water does not change color, P alkalinity is zero.
  - b. If the water turns pink or red, proceed to step 4.
4. Add the Alkalinity titrating solution, drop by drop, shaking the vial between each drop, counting the drops, until the pink/red color turns to colorless.

P alkalinity as ppm of  $\text{CaCO}_3$  = no. of drops x 25.

5. To the same sample add 5-10 drops of the Mixed indicator solution.
6. If the water turns orange, M alkalinity is zero.
7. If the water turns blue-green, proceed to step 8.
8. Add the Alkalinity titrating solution, drop by drop, shaking the vial between each drop, counting the drops, until the blue-green color turns to orange.

M alkalinity as ppm of  $\text{CaCO}_3$  = total no. of drops (steps 4 + 8) x 25.

**Replacement Reagents and Parts**

R-2010/4oz/25	-	Alkalinity titrating solution (1 drop = 25 ppm $\text{CaCO}_3$ / 25 ml)
R-1070/2oz	-	Phenolphthalein indicator solution w/nasal plug
R-1050/2oz	-	Mixed indicator solution w/nasal plug
P-1045	-	Graduated reaction vial w/cap, 25 ml
P-1040	-	Glass eye dropper, blunt tip w/ 20 mm screw cap
P-1110	-	Test kit box with foam insert and bottom