

TEST KITS & EQUIPMENTS

Product Code: SP-KS-098

ALKALINITY TEST KIT:

1. Rinse the test tube with the water to be tested and fill to the 5 ml mark using injector.

2. Add 3 drops **P** (**FF**, **phenolphthalein**) **Indicator** and shake. The solution must turn pink, otherwise determine M value on step 4 th.

3. Add alkalinity Titration Solution drop by drop till the pink color turns to colorless. Titration is completed when it turns to colorless. Reported P alkalinity is total drops of titration solutions.

1 drop TITRATION SOL = 50 ppm Phenol (p) Alkalinity.

4. Add 3 drops MR indicator to the same test tube. The solution must turn green.

5. Add TITRATION SOLUTION drop by drop till it turns green to grey-red, count the titration solutions drops while the test solutions color changes green to grey-red. Reported **M Alkalinity is total drops of these steps**.

1 drop TITRATION SOL = 50 ppm Total (M) Alkalinity

Total Alkalinity= P alkalinity+M alkalinity

1 drop TITRATION SOL = 50 ppm Total (M) Alkalinity

Total Alkalinity= P alkalinity+M alkalinity

VALUES	HYDROXIDES	CARBONATES	BICARBONATES
P=0	-	-	m
P=m	m	-	
2p=m	-	m	-
2p>m	2p-m	2(m-p)	-
2p< m	-	2р	m-2p

Note :

p = 0 alkalinity is caused by bicarbonate.

p = **m** alkalinity is caused by hydroxide.

2p = m alkalinity is caused by carbonate.

2p > m alkalinity is caused by carbonate and hydroxide.

2p < m alkalinity is caused by carbonate and bicarbonate.