Calcium Profi Test

The Calcium test can be used for testing :

- Marine water
- Fresh water
- Garden pond water
- Fresh water aquarium

Warning

Ca-1 reagent contains sodium hydroxide and is strongly irritating to skin and eyes. In case of contact with skin wash with plenty of water. In case of contact with the eyes wash with plenty of water and consult a physician immediately.
Not for consumption. Keep out of reach of children.
If swallowed contact a physician immediately.

INSTRUCTIONS

1] Add with the 5 ml syringe 3 ml of water in the test vial. For a lower resolution and more tests per kit add 1.5 ml instead of 3 ml.

2] Add 6 drops of Ca-1 to the water in the test vial and swirl gently for 10 seconds. For low resolution 3 instead of 6 drops.

3] Add 1 spoon of Ca-2 (low resolution approx. 1/2 spoon) and swirl for 5 seconds.

4] Put the plastic tip firmly on the 1 ml syringe. And draw into the syringe the CA-3 reagent (ensure that the end of the plastic tip is constantly submersed in the Ca-3 reagent) till the lower end of the black part of the piston is exactly at the 1.00 ml mark. There will be some air present just below the piston. This is the air which was present between the end of the plastic tip and the piston. This will not influence the test result.

5] Add dropwise with the 1 ml syringe the Ca-3 reagent to the water in the test tube. Swirl after each drop a second or two.
Continue with this until the color changes from pink-red to a clear blue color.

6] Hold the syringe with the tip facing upward and read the position of the , now the upper end , of the black part of the piston. The syringe has graduations of 0.01 ml. Read the calcium value from the table or calculate as follows.
ppm Ca = (1 - reading in step 6) x 500

If you have chosen for the lower resolution multiply the calculated result by 2.

Natural sea water contains 425 - 450 ppm calcium.
Use Salifert's Coral Calcium for good results.

Calcium Table

If you took1.5 ml of water in step 1 then multiply the calcium values by 2!

Reading in ml's (Step 6)	Calcium concentration in ppm
0.00	500
0.02	490
0.04	480
0.06	470
0.08	460
0.10	450
0.12	440
0.14	430
0.16	420
0.18	410
0.20	400
0.22	390
0.24	380
0.26	370
0.28	360
0.30	350
0.32	340
0.34	330
0.36	320
0.38	310
0.40	300
0.42	290
0.44	280
0.46	270
0.48	260
0.50	250
0.52	240
0.54	230
0.56	220
0.58	210
0.60	200
0.62	190
0.64	180
0.66	170
0.68	160
0.70	150
0.72	140
0.74	130
0.76	120
0.78	110
0.80	100
0.82	90
0.84	80
0.86	70
0.88	60
0.90	50
0.92	40
0.94	30
0.96	20
0.98	10