

Calcium Profi Test

The Calcium test can be used for testing :

- Marine water
- Fresh water

Note: This is a new version (Febr. 2004) and you can't interchange the reagents with the older version.

Warning



Irritating!

Ca-2 reagent is irritating, contains < 2% NaOH.

R36/38 : Irritating to eyes and skin.

S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Keep out of reach of children!

INSTRUCTIONS

If required visit the FAQ page on www.salifert.com.

- 1) Add with the syringe 2 ml of water in the test vial. For a lower resolution and more tests per kit add 1 ml instead of 2 ml.
- 2) Add 1 level spoon of Ca-1 (low resolution approx. 1/2 spoon). Do not mix it yet.
- 3) Add 8 drops of Ca-2. The low resolution mode requires 4 drops. Swirl (do NOT shake) for 10 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.

Calcium Table

If you took 1 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

Natural sea water contains 400 - 425 ppm calcium.