

Why Test Calcium?

Calcium is an important mineral for aquariums, especially reef aquariums with corals and other invertebrates, as it plays a crucial role in the growth and development of their skeletal structures.

Calcium (Ca²⁺) is vital to many biological functions in saltwater and reef aquariums and should remain in proper ionic balance along with alkalinity (KH) and magnesium (Mg²⁺). A calcium level outside of this ionic balance can lead to poor coral skeleton growth and tissue necrosis.

Calcium uptake in reef aquariums can change over time, and regular testing is necessary to ensure proper dosing. Maintaining proper calcium levels in a reef aquarium is essential for the health and growth of its inhabitants, and regular monitoring and testing are necessary to ensure that the aquarium remains in optimal condition. The recommended calcium levels in reef aquariums range from 400-450 ppm.



WARNING

CALCIUM TEST SOLUTION #1

Wear protective gloves / protective clothes / eye protection / face protection - If exposed or concerned: Get medical advice/attention - Store locked up - Dispose of contents/container to authorized chemical landfill or if organic to high temperature incineration.



WARNING

CALCIUM TEST SOLUTION #2

Wear protective gloves / protective clothes / eye protection / face protection - If exposed or concerned: Get medical advice/attention - Store locked up - Dispose of contents/container to authorized chemical landfill or if organic to high temperature incineration.

FRITZ

CALCIUM Ca²⁺ TEST KIT

INSTRUCTIONS

FRITZ
AQUATICS

Distributed by: Fritz Industries, Inc.
Mesquite, TX 75149

MADE IN USA
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Questions or Comments?
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FOR SALTWATER AQUARIUMS



Directions for Testing Calcium Levels

NOTE: Read instructions thoroughly before testing.

⚠ DO NOT allow Test Solutions to get into aquarium.

To remove childproof safety cap, push down while turning.

- 01** Fill a test tube with **5 ml** of water to be tested (to the line on the tube).
- 02** **Add 10 drops** from **Calcium Test Solution Bottle #1**, holding dropper bottle upside down in a completely vertical position to ensure uniformity of drops added to the water sample.
- 03** Cap the test tube and gently shake several times to mix solution. Attention! Always use the cap. Avoid skin contact as this may affect the test results.
- 04** **Vigorously shake** the **Calcium Test Solution Bottle #2** for at least **10 seconds**.
- 05** Holding the bottle vertically, **Add Calcium Test Solution #2 drop by drop into the test tube**, shaking gently between and counting drops. Stop when the solution changes from pink to blue. As the blue endpoint is approached, color will change from pink to purple before changing to blue. After purple color forms, only 1-2 more drops should be required to reach the blue endpoint. Calcium level is # of drops x 20. Use chart to determine calcium level.

CALCIUM TEST CHART

# of Drops	mg/l (ppm) Calcium (Ca2+)
1	20
2	40
3	60
4	80
5	100
6	120
7	140
8	160
9	180
10	200
11	220
12	240
13	260
14	280
15	300
16	320
17	340
18	360
19	380
20	400
21	420
22	440
23	460
24	480
25	500
26	208

For best results the tube should be viewed against the white area beside the color chart in a well-lit area with a light source behind you. Rinse the test tube with clean water after each use.



Corrective Actions

- ✓** To increase calcium in saltwater aquariums, we recommend adding Fritz RPM Elements Part 2 Liquid Calcium. Also ensure alkalinity (KH) and Magnesium levels are within ideal levels.
- ✓** To decrease calcium in saltwater aquariums, perform partial water changes with lower calcium content water.