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**Barcode 0619106030127 Tropic Marin Bio-Calcium** Enables the addition of biologically ideal calcium to the reef aquarium: All calcareous animals, especially corals need calcium and carbonates to grow and flourish. However the growth rate of corals depends mostly on the zooxanthellae (algae) that live symbiotically within them. These algae present the coral with precious carbohydrates of their own metabolism. As they photosynthesize, they use carbon dioxide from the water, which enables the coral to precipitate calcium carbonate in its skeleton. Only when calcium and carbon dioxide are available together can this symbiotic relationship work. Tropic Marin Bio-Calcium is the ideal source of both calcium carbonate for the corals and carbon dioxide for the zooxanthellae. Many calcium supplements add undesirable by-products to the water, or like Kalkwasser, influence pH. When Tropic Marin Bio-Calcium is dissolved in the aquarium, all 70 trace elements are added and no unnatural by-products are formed. Tropic Marin Bio-Calcium will not alter the pH level if used in accordance with the instructions. Natural sea water contains on average 400-410 ppm of calcium and is typically saturated at this level. It is important not to exceed 450 ppm, as super saturation can result in the calcium surplus precipitating out of the solution, taking desirable trace elements with it. We recommend the use of a Tropic Marin calcium test kit and Tropic Marin Bio-Calcium to ensure these proper calcium levels. **How to Use BIO-CALCIUM:** Calculate the total system water volume, being sure to take into account volume of live rock, external filters and sumps. Each level measuring spoonful (5 ml) raises the calcium level of 5 gallons (US)/4 gallons (Imp) of system water by 28 ppm. Maximum recommended dose is one level scoop for each 5 gallons (US) / 4 gallons (Imp) of tank water per day. **Bio-Calcium: Biologically ideal form of calcium for reef aquaria Key benefits:**

- Adds all 70 trace elements including strontium, molybdenum and iodine
- Only natural substances are formed when dissolved
- Add directly to your tank, no need to premix or drip.
- Supplies calcium carbonate for corals and CO<sub>2</sub> for the zooxanthellae.
- Will not influence pH of aquarium if used as directed.
- Measured amount of calcium in a truly ionically balanced formula **Tropic Marin Calcium-Test**

For the determination of the calcium concentration in saltwater. Calcium is one of the most important components of saltwater and largely determines the growth rate of organisms, which form calcareous skeletons like, for example stony corals and calcareous algae. In the saltwater aquarium, a regular addition of calcium ions is necessary because of the constant decrease of the calcium concentration caused by the metabolism of the organisms and by precipitation. With a sensitivity of 4 mg/l, the Calcium-Test by Tropic Marin is the most accurate calcium test available. Special reagents intentionally make use of the high magnesium concentration of the saltwater, which usually interferes with aquarium calcium tests, and thus guarantee the outstanding dependability of the results. For approx. 40 tests. **Information: What does alkalinity mean?** Alkalinity is measure of the concentration of hydrogen carbonate and carbonate ions in water with increasing pH value also the hydroxide ions. The concentration of these ions determines the buffering capacity of water, i.e. the capability to the water to maintain proper pH. If the percentage of hydrogen carbonate and carbonate ions is too low, the pH value of the water may drop severely (acidity drop) causing a life threatening condition for many invertebrates and fish. **What is the optimal alkalinity?** In a marine aquarium, the alkalinity should be between 8 and 12 dKH (german carbonate hardness). The Tropic Marin KH Alkalinity Test Kit makes it possible to quickly determine the buffering capacity of your aquarium water. This test kit will do approximately 150 tests (depending on test results) that are both fast and accurate. **Directions:** Shake the dropper bottle before use. Rinse the glass vial in tap water. Then several times with aquarium water and fill it with the aquarium water sample up to the 5 ml mark using the measuring syringe. Counting each drop, add KH-test reagent drop by

drop (shake vessel lightly after each drop) until the color of the solution turns from GREEN to RED-ORANGE. Each drop of reagent corresponds to one degree of hardness. The total number of the drops used equals the total hardness of the solution in ĚšdKH, for ex. 12 drops = 12ĚšdKH. To increase the accuracy of the measurement, a 10 ml water sample can be used. In this case one drop corresponds to 0,5 ĚšdKH, e.g. 15 drops=7,5 ĚšdKH. Rinse the glass vial and the measuring syringe with tap water. **When your alkalinity is too high or low:** If the values are too low, use Tropic Marin Triple Buffer for adjustment of the alkalinity and the pH value to the optimal marine values. There are many different possibilities for water softening when the alkalinity is too high (above 18 ĚšdKH). Ask your local aquarium store for advice.

- **Schedule of water hardness:**

**Caution:**

**Keep out of the reach of children!**

**Brand :** Tropic Marin

**Model :** Calcium Test

**Range :** 100 to 500 ppm.

**Resolution :** 4 ppm.

**Solution 1 :** 25 ml

**Solution 2 :** 5 ml

**Solution 3 :** 20 ml

**Solution 4 :** -

**Number of Using of Solution 1 :** 25 tests (1 ml / test)

**Number of Using of Solution 2 :** 50 tests (1 spoon / test)

**Number of Using of Solution 3 :** 80 tests at 400ppm (1 drop / 4ppm)

**Type of water :** Freshwater & Saltwater



**Tropic Marin Bio-Calcium 500g (500ml)**



**Tropic Marin Calcium Test**

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