Aquavitro Calcification

calcificationâ,¢

complexed calcium designed to restore and maintain calcium to levels found in natural seawater, without affecting pH. These two forms of calcium are combined in calcificationâ,,¢ to provide the hobbyist with a convenient way to ensure peak coral growth and health. Ionic calcium is readily available, while the gluconate-complexed calcium confers several benefits. The uncharged calcium in calcificationa..¢ is readily absorbed with less physiological work than is required for the absorption of ionic calcium. Using calcificationa, ¢, it is not necessary to maintain the excessively high concentrations of calcium (about 450 mg/L or more) often recommended by others. In fact, excellent

is a concentrated (140,000 mg/L) optimized blend of ionic and bioavailable

gluconate-

with total calcium concentrations as low as 380 mg/L. Used up growth of corals and coraline algae is achieved four times recommended maintenance dose, the gluconate polymer will not accumulate or to encourage the growth of undesirable algae. The polymer itself is bene cial as a food source not only to the corals and other invertebrates, but also to denitrifying bacteria, actually promoting the natural anaerobic denitri cation process in live rock and other substrate. Furthermore, the use of this gluconate polymer allows calcium, strontium, and magnesium to be utilized more readily than they would otherwise and helps to stabilize them in solution without depleting alkalinity. also

Some prefer not to use complexed calcium because of concern about adding organics to the aquarium. This is not a valid concern. The amount of organics added with complexed calcium is insignificantly small when compared to the organics released by most reef creatures, even in a no feed, no nutrients approach. Since complexed calcium products employ lactate or gluconate, the naive misconception that these products contain sugars has arisen. While these components are related to sugars, they are oxidized aldehydes and do not react or behave as sugars. Polygluconate contains no nitrogen or phosphorous, thus it is biologically impossible for it to lead to algae growth in a properly maintained reef system.

Unlike competing products that require multi-day interval dosing when combined with carbonate supplements, calcificationâ,¢ can be dosed daily and within minutes of our eight.fourâ,¢ as well as the entire aquavitroâ,¢ reef line.

Directions

Beginner: Use one inner capful (7 mL) for every 100 L (25 gallons*) twice a week. Check calcium once a week and adjust amount or frequency accordingly.

Note: each inner cap thread is approximately 2 mL. One full cap is 49 mL.

Advanced: Check calcium level, then follow addition regimen above until calcium is adjusted to 380-400 mg/L. Each 7 mL/100 L (25 gallons*) will raise calcium by about 10 mg/L. Quantity or frequency can be adjusted, but do not exceed 21 mL/100 L (25 gallons*) per day. Thereafter, use as required to maintain calcium.

To test calcium, try Seachem's Reef Statusâ, ¢: Calcium kit.