



B-Ionic Calcium Buffer System



B-Ionic Calcium Buffer is the original, unique, easy to use, two-component liquid supplement system. When using equal volumes of each component, the aquarist can easily maintain calcium and alkalinity levels with no mixing powders, disruption of ionic balance, or addition of organic chemicals. In addition to supplying highly concentrated calcium and carbonate alkalinity required for calcification, B-Ionic Calcium Buffer System also provides all other important major, minor, and trace elements in the proper ratios to duplicate the composition of synthetic seawater. As a result, B-Ionic Calcium Buffer System will help restore inorganic ions lost from protein skimming and help maintain the ionic balance of the aquarium water.

The following chart illustrates the many advantages of B-Ionic Calcium Buffer over other forms of calcium and alkalinity supplements:

Results	B-Ionic Calcium Buffer	Kalkwasser	Calcium Chloride and Buffer Additions
Disrupts ionic balance	No	No	Yes
Helps restore ionic balance	Yes	No	No
Highly concentrated	Yes*	No	Yes
Pre-mixing with water required	No	Yes	Yes
Dosing equipment required	No	Yes	No

* 40 times more calcium than saturated kalkwasser solution.

Our recommended starting dose is 1 ml. of each component per 4 gallons of aquarium capacity per day. Maintain alkalinity between 3.0 and 3.75 meq/liter (8.4 and 10.5 dKH) by testing daily and adjusting dose accordingly. Depending on the degree of calcification occurring in the aquarium, dose may have to be significantly increased over our recommended starting dose. Never add more than 1 ml. per gallon of each component in a 24 hour period, and never allow pH to rise above 8.45. Once the proper dose has been determined for your aquarium, testing can be performed less frequently. If your aquarium tends to run at a higher pH (over 8.45) we suggest you try our B-Ionic Calcium Bicarbonate System. When using kalkwasser in addition to B-Ionic Calcium Buffer System, follow the above procedure but start with 1 ml of each component per 8 gallons of aquarium capacity per day. For more detailed directions please refer to our product label.

Component #1 - Carbonate Alkalinity: 2800 meq/liter (7840 dKH). 1 ml per gallon of aquarium water will raise alkalinity by 0.74 meq/liter (2.07 dKH).

Component #2 - Calcium Concentration: 54,000 ppm calcium ion. 1 ml per gallon of aquarium water will raise calcium concentration by 16ppm.

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- [# 150](#) - 32 fl. oz. unit (treats 30 gallons for 30 days)**
- [# 151](#) - 64 fl. oz. unit (treats 30 gallons for 60 days)**
- [# 152](#) - 2 gal. refill unit (treats 100 gallons for 72 days)**
- [# 153](#) - 5 or more 2 gal. refill units**
- [# 157](#) - 10 gal. unit in 5 ga. pails

** These are estimated numbers. When using ***B-Ionic Calcium Buffer System*** kalkwasser, double the number of days listed above.

in conjunction with



***E.S.V.
Company, Inc.
38 Varick
Street
Brooklyn, NY 11222***



Orders only - 1.800.846.9449
FAX - 1.718.388.6385
Technical Info - 1.718-387-7839
Internet - ESVCO@CS.COM

