



## HyperClear Reef

Natural aquatic ecosystems are characterized by distinct groups of organisms that can collectively be described as “producers, consumers and decomposers.” Producers include plants and phytoplankton. Consumers include zooplankton, macro-invertebrates and fish. Decomposers are mostly fungi and bacteria.

Aquariums mimic natural ecosystems in that these roles, producer, consumer and decomposer, must all be present in order for the system to function in a balanced, healthy manner. Aquarists typically give a lot of consideration to the fish (consumers) they will add to the tank. They may also pay attention to the producers, like plants and seaweeds, but seldom do they think about the myriad invisible microorganisms that make an aquarium function.

**HyperClear Reef** seeds the aquarium with microbes appropriate to the role of decomposers in the aquatic environment.

You may have heard about the benefits of “probiotic” foods, like yogurt, that contain bacteria that are beneficial to human health. The proprietary mix of bacterial strains and free enzymes present in **HyperClear Reef** acts like a probiotic for your aquarium’s ecosystem. By supplying the right strains of bacteria to eliminate sludge, inorganic nutrients like nitrate and phosphate, and dissolved organics, **HyperClear Reef** helps establish a complete ecosystem in your tank.

Just as freshwater fish and saltwater fish are different, so too are the bacteria that are decomposers in each of these environments. That is why we make **HyperClear Reef** in two forms, each with the appropriate strains of bacteria for both freshwater and reef aquariums.

**HyperClear Reef** contains beneficial nitrifying bacteria. (See table.) These bacteria are essential for healthy functioning of all types of biological filtration systems. **HyperClear Reef** can be used to “cycle” new aquariums, to enhance biological filtration in existing systems, or to provide supplemental nitrification in aquariums experiencing problems with ammonia or nitrite.

- Reduces sludge
- Reduces nitrate
- Reduces phosphate
- Reduces maintenance
- Naturally clears water
- Targets and cleans live rock, coral decorations, tank walls, stains, and detritus

**HyperClear Reef** was developed to reduce organic load, nitrate, sludge, and phosphate.

**HyperClear Reef** helps keep plants, gravel, and water pristine naturally and safely.

**HyperClear Reef** is an all-natural, organic blend of live bacteria and enzymes. **HyperClear Reef’s** proprietary blend of synergistic bacteria and enzymes that result in less work for hobbyists, healthier live rock, and a clear, clean, thriving aquarium.

Organism	Concentration
Non-pathogenic, <i>Bacillus subtilis</i> bacteria in spore form adapted to saline conditions	150-250 mg/liter of viable bacterial solids
Non-pathogenic, <i>Nitrosomonas</i> and <i>Nitrobacter</i> nitrifying bacteria adapted to saline conditions	150-250 mg/liter of viable bacterial solids
Non-pathogenic <i>Pseudomonas</i> bacteria that consume organic waste and denitrify	150-250 mg/liter of viable bacterial solids

Dosage: (1 capful = 5 ml) Shake well before using. When water quality problems are present, use 1 fluid ounce (30 ml) per 20 gallons weekly for 30 days. To prevent water quality problems and reduce maintenance, reduce dosage in half and use weekly when no water change is being done. Treats up to 480 gallons.

Store in a cool dry place.  
Keep out of reach of children.



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