The Natural Solution when only the best will do

Case Histories - Aquaculture

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Ammonia Reduction in a Shrimp Hatchery © 2009

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ECOPROBIOTICS®, of the Bacta-Pur® System, are beneficial communities of natural bacteria, which have been on earth for millions of years and have been selected for their synergistic ability to biodegrade pollutants and to improve water quality. ECOPROBIOTICS® increase biodiversity. Just as people take probiotic yogurt for its' ability to assure the presence of the optimal community for digestion and immunity, ECOPROBIOTICS® improve ecosystem health. EVERY PRODUCTION of Bacta-Pur® products is analyzed and cleared for shipment ONLY after passing all performance tests and being CERTIFIED PATHOGEN FREE using techniques from the food industry. ECOPROBIOTICS® are purely natural and beneficial; they NEVER contain added chemicals such as surfactants, emulsifiers or enzymes..., nor do they contain genetically modified (GMO) or deliberately mutated organisms. ECOPROBIOTICS® are safe and beneficial. Disease causing organisms are never used, as others do or permit. All bacterial cultures in the Bacta-Pur® product are listed on the Canadian DSL.

Background

Aquaculturists face a growing problem of decreasing water quality. Increases in pollution not only can result in government intervention, but pollution also causes negative feedback on the production itself.

Ammonia is a common problem. Even before lethal levels are reached excessive ammonia stresses animals. This, in turn, reduces feed conversion efficiency and increases susceptibility to diseases and reduced oxygen.

Treatment Program

A shrimp hatchery in Thailand compared two rearing tanks with and without the addition of 1 ppm of Bacta-Pur® N-2000+*. The test was conducted for ten days.

Results

DAYS	AMMONIA (ppm)		% REDUCTION
	CONTROL	1 ppm Bacta-Pur® N-2000+	
1	0.2474	0.2525	
3	0.1229	0.1169	4.9
5	0.0814	0.0754	7.4
7	0.0695	0.0508	26.9
10	0.1013	0.0732	27.7

The benefits of Bacta-Pur® increased with time. The trend in % reduction is very clear, but the testing was stopped after only 10 days.

* Bacta-Pur® N-2000+ has been replaced by Bacta-Pur® N3000, which is more than 1000 times concentrated.



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