

EPICIN® -D

Biological Aquaculture

Treatment:

HATCHERY WATER TREATMENT

PRODUCT DESCRIPTION:

EPICIN- D Biological Aquaculture Treatment is a natural microbial ecosystem, with added stabilizers and growth stimulants, for detoxifying aquaculture hatchery tanks. It eliminates water-fouling waste products such as ammonia, nitrites and hydrogen sulfide. It also improves animal health and disease resistance by creating a probiotic environment. While the EPICIN-D organisms are microscopic, they - along with the enzymes they secrete - are powerful, living "engines" that love to consume waste.

BENEFITS IN AQUACULTURE:

- * Effectively and rapidly reduces dangerous levels of ammonia, nitrite, and sulfide pollutants in hatchery water.
- * Suppresses the growth of harmful bacteria such as *Vibrio* sp., including those responsible for the zoea-2 syndrome of larval shrimp
- * Allows higher stocking densities.
- * Reduces need for water exchanges providing a more bio-secure environment.
- * Leaves behind cleaner water reducing pollution from discharged water.

TREATMENT SUGGESTIONS:

Problem	Product	Rate	Timing
High ammonia	EPICIN -D	10 ppm	Daily until reduced
High <i>Vibrio</i> sp.	EPICIN -D	20 ppm	Daily until eliminated



MODE OF ACTION

As a result of the genetic coding possessed by the microbes in EPICIN-D, ammonia and nitrites are rapidly consumed over a wide range of pH, temperature and salinity conditions. The microorganisms utilize nitrogen and hydrocarbon-based wastes in their metabolic processes to produce microbial biomass as part of their natural growth and reproduction.

The microorganisms in EPICIN-D establish a strong natural bacterial culture in the hatchery water that suppresses the growth of harmful microorganisms such as luminescent bacteria. Also, the microbes in EPICIN-D are capable of excreting natural bacteriostats, also called bacteriocins, which repel harmful bacteria.

EPICIN-D Application:

Mix up to 100 gm EPICIN-D in at least 1 liter* of warm (25-35°C) hatchery water. Do not use water containing chlorine or other disinfectants.

- * Caution: Do not let mixture stand more than one hour before use!



AQUATIC ENTERPRISE CO.

No.285, Lot 3181, Ground & 1st Floor, Block 11, Jalan Kedandi, Tabuan Dusun, 93350 Kuching, Sarawak, Malaysia.
Tel: 6-082-365370 Fax: 6-082-365037 Email: chris@shrimpcare.com

www.shrimpcare.com

www.marinefishculture.com

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