



Epicore BioNetworks Inc.

# EPIZYM<sup>®</sup>- HOD Hatchery Organics Digester

## PRODUCT DESCRIPTION

**EPIZYM-HOD Hatchery Organics Digester** is a natural microbial ecosystem with added stabilizers and growth stimulants for detoxifying water in aquaculture hatcheries. It eliminates toxic waste from contaminated water such as ammonia, nitrites and hydrogen sulphide, thereby lowering stress and providing a healthier environment growth for animals in hatcheries. It also improves animal health and disease resistance by creating a probiotic environment; EPIZYM-HOD Hatchery Organics Digester is fortified with unique accelerators to increase the microbial action.

## BENEFITS TO AQUACULTURE

- Establishes beneficial natural culture bacteria in the tank inhibiting the growth of harmful pathogen bacteria such as *Vibrio sp* species.
- Effectively reduces the dangerous levels of ammonia, nitrite, and other water pollutants of hatcheries.
- Increase animal survival and yields.
- Significantly reduces cleaning problems in the tanks and organic matter accumulations in tanks bottoms.
- Allows increasing stocking density which improves efficiency in production.
- Provides increase in weight of the animal.
- Reduces the need for water exchange providing a more bio-secure environment.
- Does not require activation therefore reduces possible mistakes on the product application.
- It is easily dispersed in water as it does not contain any gritty residue, therefore not needing filtration.
- Contributes with the environment by discharging better water quality.
- Creates a probiotic environment that reduces toxic metabolites that affect the taste of the shrimp.

## MODE OF ACTION

The hatchery treatment of larvae with specially formulated products, based on a carefully selected range of natural bacteria, provide a natural way to eliminate pollution and to create a beneficial microorganism environment that inhibits the development of harmful pathogen organisms. The biologic catalysts of EPIZYM-HOD Hatchery Organics Digester immediately starts the process of digesting accumulated organic matter; these microorganisms have been specially selected due their ability to produce a wide variety of powerful enzymes to decompose the different organic waste produced on the larviculture tanks. The bacteria have a powerful capacity of using pollutants as ammonia and nitrites for its growth and natural reproduction as well as organic carbon. Additionally, beneficial natural culture bacteria provide a “probiotic” environment which suppresses the growth of harmful organisms. Through these two mechanisms, a healthier aquatic creature is raised that has greater vitality and immunity to disease.

## INGREDIENTS

Contains natural, non-toxic microbial culture, with free enzymes, added stabilizers and growth stimulants on an inert carbohydrate carrier

## PRODUCT DATA

Form	Granular
Color	Non-uniform tan
Bulk Density	Approximately 0.5 gm/ml (31 lb./cubic foot)
Total Aerobic Count	1.0E+09 cfu/gm, minimum

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### IMPORTANT NOTICE TO PURCHASER

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## TREATMENT SUGGESTIONS

### High accumulation of organic matter:

- A preventative program is strongly recommended over a remedial one. Applying EPIZYM-HOD Hatchery Organics Digester before problems develop consistently protects animal health in the hatchery and minimizes the impact of problems on survival and pond yield.
- In high stocking density, the pollutant waste creates the right environment for the growth of harmful microorganism to the animal therefore the uses of EPIZYM-HOD Hatchery Organics Digester is recommended at the beginning and thus creates a probiotic environment

### The following treatment rates are suggested as starting points:

Stage of Growth	Application Rate
Z1 / Z2	1ppm
Z3 / M1	2ppm
M1 a M3	3ppm
PL1 a PL5	4ppm
PL6 a PL12	5ppm

- For a heavy *Vibrio sp.* infestation, add 20 ppm of EPIZYM-HOD Hatchery Organics Digester (depending on the animal stage) per day until the infestation is eliminated.

**PRODUCT STORAGE:** Keep dry; do not store continuously at temperatures above 40°C; Store out of direct sunlight in a well ventilated area; Do not pre-mix with other products not recommended by Epicore especially biocides and harsh chemicals.

**SHELF LIFE:** Two years if stored as recommended.

**PACKAGING:** Supplied in 20-kg and 40-kg fiber drums with polyethylene liners and in open head polyethylene pails of 1-kg, 5-kg and 10-kg, and in 1-kg re-sealable plastic bags.