



Epicore BioNetworks Inc.

EPICIN[®] -Pills Biological Aquaculture Treatment

PRODUCT DESCRIPTION

EPICIN-Pills is a natural microbial ecosystem with added stabilizers and growth media for detoxifying aquaculture grow-out pond and hatchery water. It eliminates water-fouling waste products such as ammonia, nitrites and hydrogen sulfide, thereby lowering stress and providing a healthier environment for aquatic animal growth. It also improves animal health and disease resistance by creating a probiotic environment.

BENEFITS TO AQUACULTURE

- Effectively and rapidly reduces from pond water dangerous levels of ammonia, nitrite, and sulfide pollutants.
- Establishes a strong natural bacteria culture in the pond that suppresses the growth of harmful bacteria such as *Vibrio sp.*
- Increases animal survival and yields.
- Allows higher stocking densities.
- Promotes animal weight gain for either faster growth cycles or heavier and more valuable animals.
- Reduces need for water exchanges providing a more bio-secure environment.
- Leaves behind cleaner pond soil reducing pond renovation costs and downtime.
- Mineralizes organic matter to produce nutrients for pond algae that feed the shrimp.
- Mineralization reduces the need for traditional chemical fertilization.
- Is formulated in an easy to use pill formulation that makes dosing foolproof.

MODE OF ACTION

Treatment of aquaculture grow-out ponds with specially formulated products based on carefully selected, natural bacteria provides a natural way to eliminate pollution and to create a beneficial microbial environment that inhibits the development of harmful organisms. Bacteria have a powerful capacity to utilize pollutants such as ammonia, nitrates and nitrites in their normal metabolism. Additionally, a thriving culture of the right natural 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 non-toxic, natural microbial cultures and enzymes with added stabilizers and growth stimulants on an inert carbohydrate carrier.

PRODUCT DATA

Form	Pill with white, tan and yellow particles
Odor	Slightly sweet
Size	Approximately 30 mm diameter, 11 mm thickness; 10 grams net weight
Total Aerobic Count	5.0E+09 cfu/gm, minimum

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American Operations:

Epicore BioNetworks Inc.
4 Lina Lane
Eastampton, New Jersey, 08060
USA
Telephone: (609) 267-9118
Fax: (609) 267-9336
information@EpicoreBioNetworks.com
www.EpicoreBioNetworks.com

Latin American Operations:

Epicore Ecuador S.A.
Km 11 vía a la Costa
Guayaquil – Ecuador
Phone: (593-4)-299-0663 / 0859
lorena.vanoni@EpicoreBioNetworks.com

La Libertad Office:

Epicore Ecuador S.A.
Calle Diez y Avenida Quinta Barrio 10 de
Agosto, Diagonal al Colegio Celleri
La Libertad - Ecuador
Phone: (593-4)-278-5106
lorena.vanoni@EpicoreBioNetworks.com

IMPORTANT NOTICE TO PURCHASER

"Epicore BioNetworks, Inc. ("Epicore") warrants that the product conforms to its compositional description and is reasonably fit for the purpose stated on the label when used in accordance with the label instructions under normal conditions of use. There are no other express or implied warranties, whether as to merchantability, fitness for any use, or otherwise, given in respect of the product. Neither Epicore nor its agents shall be liable for any damage, loss, or injury, whether the same arises directly or consequentially, by reason of any matter whatsoever relating to the use of the product, and any buyer's or user's exclusive remedy in any instance shall be limited to a refund of the purchase price paid."

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TREATMENT SUGGESTIONS

- A preventative program is strongly recommended over a remedial one. Applying EPICIN-Pills before problems develop consistently protects animal health and minimizes the impact of problems on survival and pond yield.
- In high stocking density, intensive ponds pollutants are the main problem usually late in the grow-out cycle so EPICIN-Pills usage should be concentrated later in the cycle. Where mortality early in the grow-out cycle is the main problem, concentrate EPICIN-Pills treatment in the first sixty days to achieve the strongest probiotic effect.
- The following treatment rates are suggested as starting points for ponds:

Timing - Days	EPICIN Rate (pills/ha)	
	Intensive	Semi-Intensive
From Stocking		
-2	15	15
+30	15	15
+60	15	10
+75	15	10
+90	15	7
+105	15	7
+120	15	7
+135	15	7

- If the unionized ammonia level rises above 0.4 ppm, immediately apply an extra dose of EPICIN-Pills.
- For a heavy *Vibrio sp.* infestation, add twice the normal dose of EPICIN-Pills when infestation is first noticed and again each day for three days in a row.

PRODUCT STORAGE: Keep dry; do not store continuously at temperatures above 45°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: Shelf life is two years if stored as recommended.

PACKAGING: Supplied in,

- Case of 50 plastic vials containing six 10-gram pills each.
- Open head plastic pails, 1.0 kg (100 pills) net contents

