



Epicore BioNetworks Inc.

## **EPIFEED<sup>®</sup>-MBF** **Marine Broodstock Feed**

### **PRODUCT DESCRIPTION**

**EPIFEED-MBF** is a specially formulated dry diet that provides excellent nutrition for maintaining prolific spawners and for improving reproductive performance. It represents an enormous step towards a bio-secure system in all production areas by replacing fresh natural feed.

### **BENEFITS TO AQUACULTURE**

- Promotes maximum attraction and nutrition to stimulate reproduction.
- Eliminates the need for fresh natural feed, including poliquets and thereby improves biosecurity.
- Maintains a stable feeding regime during the year, eliminating production fluctuations caused by variability in the quality and availability of fresh diets.
- Eliminates the need to have large cold storage areas for fresh diets so saves money.
- Does not foul maturation-tank water so reduces water exchange.
- Increases mating and egg/nauplii production rates.
- Offers favorable cost savings compared to fresh natural diets.

### **MODE OF ACTION**

EPIFEED-MBF is made from high quality sources of marine proteins, lipids and glandular extracts to promote maximum attraction and to meet the full nutritional requirements of adult marine shrimp. It is processed at low temperatures to assure the ingredients selected are not degraded in feed processing.

### **INGREDIENTS**

EPIFEED-MBF is comprised of marine protein, plant protein, olefinic lipids (HUFA), phospholipids, complex carbohydrates, B complex and C vitamins, fat soluble vitamin complex, broad spectrum micro-nutrient and attractant.

### **PRODUCT DATA**

<b>Parameter</b>	<b>Value</b>	<b>Parameter</b>	<b>Value</b>
Form	Pellet	Protein (%)	43
Size (length x diameter) (mm)	7x3	Lipid (%)	11
Bulk Density, approx. (gm/cc)	0.6	Fiber (%)	3
pH, 1% dispersion	5.6	Ash (%)	11
Solids, approximate	88%	Moisture (%)	9

### **TREATMENT SUGGESTIONS**

Start EPIFEED-MBF feeding immediately after animals are selected for maturation. To improve nutrition and prepare broodstock to begin production immediately after transfer to the maturation tanks use a preconditioning program. Limit fresh diet and force broodstock to accept high levels of dry diet. Increase dry diet to 2% of the daily biomass. In the maturation unit feed animals 6 to 8 times a day aiming to reach 5 to 6% of daily biomass. Start replacing fresh diet, most expensive ones first, at the beginning of the maturation cycle. Frequent observations will help avoid situations of under and over feeding.



## Epicore BioNetworks Inc.

### 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.  
Esmeraldas 4216 y El Oro  
Guayaquil – Ecuador  
Phone: 5934-258-2992  
Fax: 5934-258-0106  
lorena.vanoni@EpicoreBioNetworks.com

### La Libertad Office:

Epicore Ecuador S.A.  
Calle Diez y Av.enida Quinta Barrio  
Frente al Colegio Celleri  
La Libertad - Ecuador  
Fax: 5934-278-5106  
Cellular: 5939-94131363  
Phone: 5934-278-5106  
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."

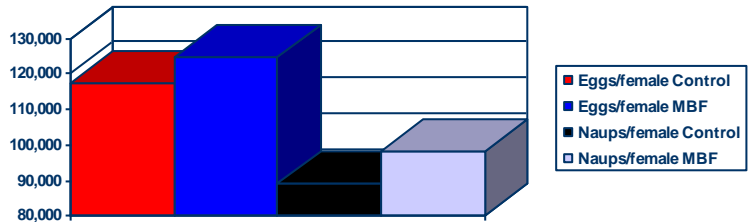
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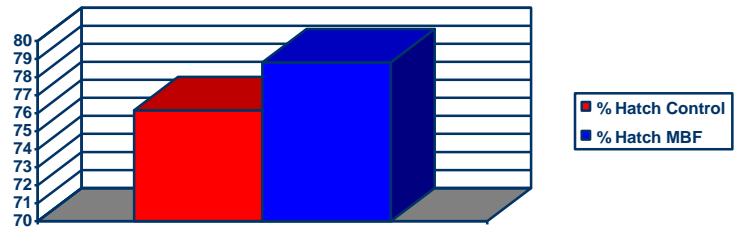
## PRODUCT PERFORMANCE

The following results are from a trial conducted in a commercial maturation facility in Honduras in 2004. The control shrimp were fed 11 % squid, 9% polychaete worms, 2% Artemia biomass and 2% of shrimp pellets (total 24% of body weight/day). For the MBF diet, the polychaete worms, Artemia and pellets were completely replaced by 2 % MBF and 11% squid only (total 13% of body weight/day).

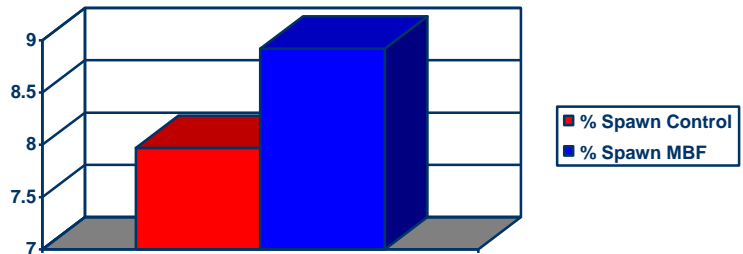
### Egg & Nauplii Production



### Nauplii Hatch Rate



### Spawning Rate



## PRODUCT STORAGE

- Do not store continuously at temperatures above 40°C.
- Keep dry.
- Store out of direct sunlight in a well ventilated area.

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

## PACKAGING

Supplied in 20-kg fiber drums with polyethylene liners and in 10-kg (5 U.S. gallon) open head polyethylene pails.

