



Epicore BioNetworks Inc.

## **EPIZYM<sup>®</sup>-AGP COMPLETE** Algae Growth Media

### **PRODUCT DESCRIPTION**

**EPIZYM-AGP COMPLETE** is a complete, concentrated medium for producing high levels of nutritious marine algae and other phytoplankton used for feeding shrimp and other marine animals. It is a one-pack, liquid version of the Guillard's f/2 medium with added cellular growth stimulants.

### **BENEFITS TO AQUACULTURE**

- Supplies in a readily assimilated form and in physiological balance all the essential primary nutrients and minerals required for optimum growth.
- Produces higher cell density and higher quality algae and phytoplankton that is able to meet the nutritional needs of growing larval shrimp from zoea-1 through the post-larval stages.
- Reduces stress and the possibility of algae crashes.
- Easy to use concentrated liquid product that eliminates the need to buy numerous, small quantity raw materials.
- More cost effective than alternative media.

### **MODE OF ACTION**

EPIZYM-AGP COMPLETE supplies all the primary nutrients of nitrogen, phosphorus and potassium as well as secondary and trace micronutrients that are essential to the synthesis of high-energy phytoplankton. Contains microbial growth stimulants to enhance cellular function during the photosynthetic process.

### **INGREDIENTS**

EPIZYM-AGP COMPLETE contains inorganic nutrients, chelated trace minerals, vitamins, microbial extracts, and marine algae extracts.

### **PRODUCT DATA**

Form	Liquid with trace sediment
Color	Dark brown
pH	Approximately 7
Specific Gravity	Approximately 1.2 at 20°C

### **TREATMENT SUGGESTIONS**

Dissolve EPIZYM-AGP COMPLETE concentrate in filtered seawater to prepare growth medium. To match the same nutrient content of Guillard's f/2 medium use at a rate of 250-ml/metric ton water (0.025% or 250 ppm or 1 quart/1000 US gallons). Inoculate the prepared medium with the required strain or strains of marine algae or other phytoplankton. Incubate under usual conditions.

If the medium is to be used for diatoms, prepare a stock solution comprised of 40mg sodium meta-silicate nona-hydrate in 1 liter of filtered seawater. Add stock solution to the medium at a rate of 1ml per liter.

## 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.  
Km 11 via a la Costa – Solar No.5  
Guayaquil – Ecuador  
Phone: 593-4-299-0663 / 0859  
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  
Phone: 5934-278-5106  
lorena.vanoni@EpicoreBioNetworks.com

### IMPORTANT NOTICE TO PURCHASER

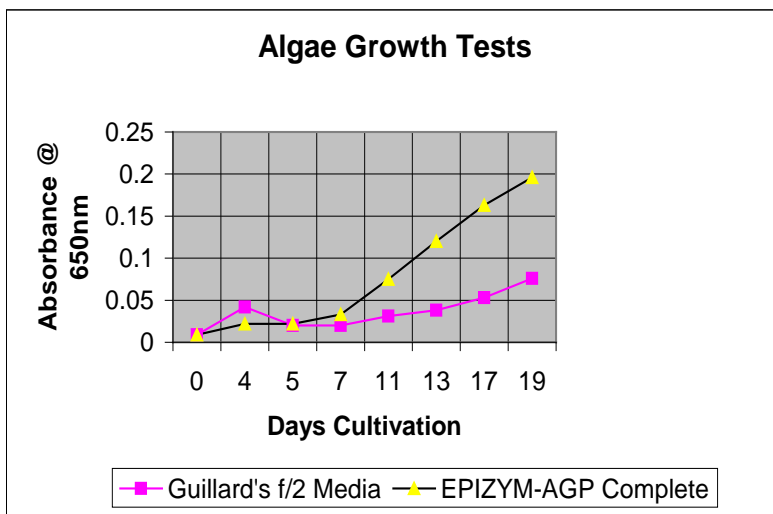
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## PRODUCT PERFORMANCE

Laboratory tests were run to compare the performance of EPIZYM-AGP COMPLETE to the standard Guillard's f/2 media at 250 ppm. The f/2 media was prepared from stock solutions for greater accuracy, adjusted to pH 8.0 with 2.0N NaOH and then autoclaved for 15 minutes to achieve sterility. The test and control flasks were inoculated with cells of *Tetraselmis chuii*. Initial absorbencies were measured with a Spectronic 21D spectrometer. The inoculated flasks fitted with an air stone aeration system were then placed at room temperature in front of a fluorescent light. Algal growth was monitored spectrometrically every 48 hours for up to nineteen days. As the following graph indicates, growth was 115% greater in the EPIZYM-AGP COMPLETE test flask. It also gave improved cell quality in terms of cytoplasm fullness, color and cleanliness.



## PRODUCT STORAGE

- Do not store continuously at temperatures above 40°C.
- Do not freeze.
- Store out of direct sunlight in a well ventilated area.
- Apply separately to the growth medium.
- 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 cases of 12 one liter plastic bottles and in 18-liter (5 U.S. gallon) closed head plastic pails.