



Newer Horizons in Aquaculture from The Land of Rising Sun

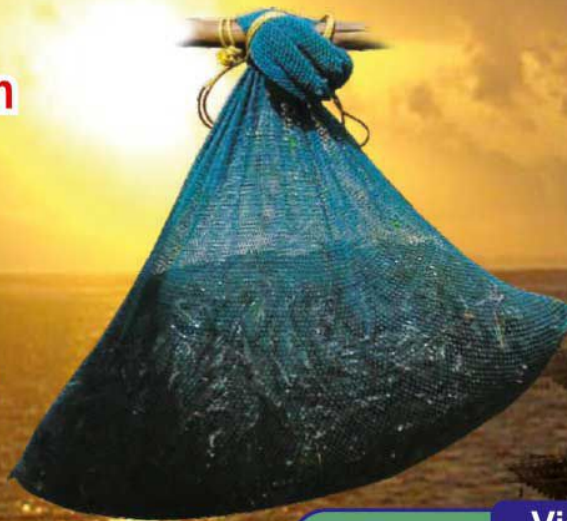


Ecoforce®

The Multipurpose Feed Synbiotic

In the Indian Aquaculture

- Improves assimilation
- Controls vibriosis
- Controls white gut
- Controls white feces
- Prevents loose shell
- Resolves blue shell
- Ensures your crop



Vision

TIL Biosciences envisages the need for creation of a stable environment through the usage of ecofriendly healthcare products that are free from antibiotics and steroids, to sustain animal life, food chain and ecology.





In the Indian Aquaculture

A Quality product

Proven functions of Ecoforce®

Produces novel enzymes, organic acids to attract feed and antagonize pathogenic *Vibrio*, permit nutrient assimilation, digestion thereby keeps the shrimp free with most favorable weight gain and make sure crop success.

Active ingredients per 500 gm.:

<i>Streptococcus faecalis</i>	} 10g (3.5x10 ⁹)
<i>Streptococcus faecium</i>	
<i>Bacillus mesentericus</i>	} 10g (1.5x10 ⁸)
<i>Bacillus subtilis</i>	
<i>Bacillus sp</i>	
<i>Clostridium butyricum</i>	10g (1.0x10 ⁸)
<i>Saccharomyces cerevisiae</i>	5g
Alkaline protease	5g (500,000 units)
Lipase	5g (20,000 units)

Inactive ingredients- Other Shrimp Attractants

Dried yeast	205 g
<i>Triticum aestivum</i>	239.00 g
Calories	812.60 Cal
Protein	28.00 g
Fat	5.26 g
Carbohydrate	172.00 g
Fibre	4.78 g
Ash	4.06 g
Calcium	95.60 mg
Phosphorous	901.03 mg
iron	8.37 mg
Potassium	956.00 mg
Thiamine	1.31 mg
Riboflavin	0.26 mg
Niacin	11.47 mg

DIRECTION FOR USE

10-15 gms / Kg feed should be mixed thoroughly with a binder. Dried in shade for half-an-hour and transmit throughout the feeding track.

Consult your aquaculture consultant or our Technical Services Executive for more information.

PACKING SPECIFICATION

4 Layers, Micro Polyester, Micro Aluminium, Micro BON with Micro Polythene (natural)

STABILITY

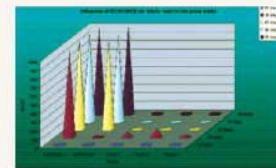
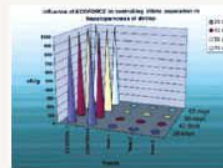
Ecoforce® is stable for 18 months from the date of manufacture

AQUACULTURE FEED SUPPLEMENT

Registered with Coastal Aquaculture Authority as Antibiotic-free Product CAA No: CAA/F16/FA/00005

Antibacterial phenomena of *Streptococcus faecalis*

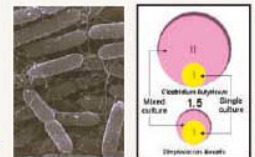
Unlike other forms of *Streptococcus faecalis*, TOA's *Streptococcus faecalis* T-110 can easily proliferate in the intestine of shrimp. It grows at pH ranging from 4.0 to 9.6. This bacterium propagates actively through symbiotic action with *Clostridium butyricum* and *Bacillus mesentericus* to yield lactic acid resulting in decreased intestinal pH thus inhibiting the proliferation of harmful bacteria.



Clostridium butyricum

This spore forming bacteria has an excellent heat, drug resistance capacity and can prevent the growth of harmful bacteria by producing butyric acid. In addition, it generates carbon dioxide to promote intestinal peristalsis. This bacterium produces a variety of enzymes including amylase, protease and lactase. Furthermore, it exhibits a symbiotic action with intestinal *Streptococcus faecalis* resulting in a marked increase when compared in other conditions...

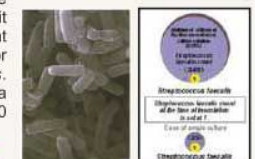
Mixed culture comparison of bacterial counts between single culture and mixed culture of *Streptococcus faecalis* and *Clostridium butyricum*



Bacillus mesentericus

Bacillus mesentericus, a spore forming species of *Bacillus subtilis*, has excellent acid, heat and drug-resistance and can produce a high amylase concentration after fission and proliferation. In addition, it also produces protease and pectinase. This shows that this bacterium is the essential energy source for proliferation of intestinal *Streptococcus faecalis*. *Streptococcus faecalis* proliferates after addition of a filtrate of *Bacillus mesentericus* culture solution about 10 times more rapidly than in single culture.

Proliferation of *Streptococcus faecalis* after addition of a filtrate of *Bacillus mesentericus* culture solution (starch medium)



Manufactured by

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