



# AQUACULTURE RANGE OF PRODUCTS





For enquiries related: Tel: +91-44-4205 0000 Mobile / WhatsApp No.: +91-9840550547 E-mail: tbs@tabletsindia.com





# Newer Horizons in Aquaeoffure from The Land of Rising Sun





In the Indian Aquaculture

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

















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.:

Streptococcus faecalis 10g (3.5x10°) Streptococcus faecium

Bacillus mesentericus Bacillus subtilis

Bacillus sp

10g (1.0x10<sup>8</sup>) Clostridium butyricum

Saccharomyces cerevisiae 5g

Alkaline protease 5g (500,000 units) 5g (20,000 units) Lipase

#### Inactive ingredients-**Other Shrimp Attractants**

| Dried yeast       | 205 g      |
|-------------------|------------|
| Triticum aestivum | 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

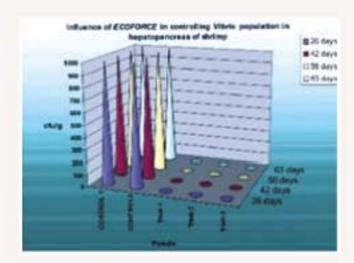
AQUACULTURE FEED SUPPLEMENT

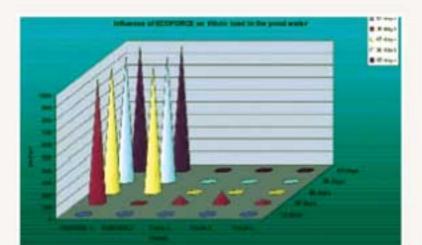
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#### Antibacterial phenomena of Streptoccus faecalis

Unlike other forms of Streptococcus faecalis, TOA's Streptococcus faecallis 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 symbotic action with Clostridium butyricum and Bacillus mesentericus to yield lactic acid resulting in decreased intestinal pH thus inhibiting the proliferation of harmful bacteria.





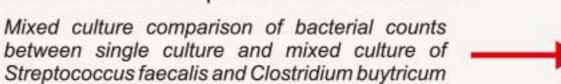


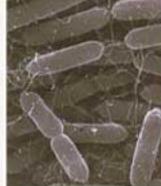


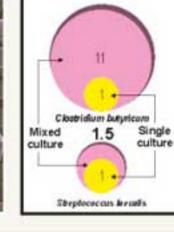
#### Clostridium butyricum

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...





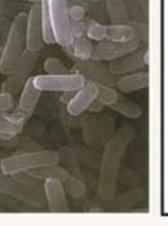


#### Bacillus mesentericus

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.

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





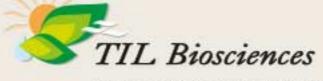
Manufactured by



# <u>ज्यमं विश्व भेषतः</u> Tablets (India) Limited

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Marketed by



(Animal Health Division of Tablets (India) Limited) 72, Marshalls Road, Chennai - 600 008, India

Web: www.tabletsindia.com

For consumer related enquiries contact +91-44-42050000 or E-mail: tbs@tabletsindia.com







# STONICH B

A SENSATIONAL STRESS RELIEVER

# Helps immunomodulation Develops a supple exoskeleton

- Exorich is a blend of naturally available vitamins, minerals, phytonutrients, carotenoids and amino acids, essential for normal moulting and hardening of exoskeleton during intermoult period, which results in better growth, and healthy shrimps.
- Exorich relieves the shrimp, prawns, fishes from all stress conditions and also protects them from oxidative damages.
- Exorich contains phosphorylated vitamin c which enhances the specific immune system in addition to non-specific defense response through its antioxidant property.
- Exorich® acts as a co-factor for chitin synthesis for exoskeleton development.
- In hatchery while packing shrimp seeds / fisher finger lings add a pinch of Exorich to avoid transportation stress and mortality









**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.

MOULTING

MOULTING

MOULTING

MOULTING









# A SENSATIONAL STRESS RELIEVER

#### Dosage and usage pattern:

- During Ashtami and Navami 5 gms per kg / feed at 6 pm meal
- A day before, on the day and day next Pournami and Ammavasa -5 gms per kg / feed at 6 pm meal

## Dosage and usage pattern for L.vannamei

- 3 gms per kg feed per day for regular use
- 5 gms per kg feed (in two meals) per day for interventional use

**Natural Carotenoids** 

| 0- |   |   | _ |   | 4   | _ | - |
|----|---|---|---|---|-----|---|---|
| Co | m | n | O | S | ITI | O | n |
| -  |   |   |   |   |     |   |   |

| Nutritional facts (per 50 gm)           |        |     |  |
|---|--------|-----|--|
| Vitamin A                               | 115000 | IU  |  |
| Vitamin C                               | 3750   | mg  |  |
| (as L-Ascorbyl-2-Polyphsphate-12500 mg) |        |     |  |
| Vitamin D                               | 6000   | IU  |  |
| Vitamin E                               | 5.0    | mg  |  |
| Vitamin K                               | 1000   | mcg |  |
| Biotin                                  | 2.5    | mcg |  |
| Thiamine                                | 1.75   | mg  |  |
| Riboflavin                              | 2.00   | mg  |  |
| Niacin                                  | 7      | mg  |  |
| Pyridoxine                              | 400    | mcg |  |
| Cobalamin                               | 100    | mcg |  |
| Folate                                  | 5      | mcg |  |
| Pantothenic Acid                        | 50     | mcg |  |
| Inositol                                | 32     | mg  |  |
| Minerals                                |        |     |  |
| Calcium                                 | 350    | mg  |  |
| Iron                                    | 75     | mg  |  |
| Phosphorus                              | 400    | mg  |  |
| Magnesium                               | 200    | mg  |  |
| Zinc                                    | 1.5    | mg  |  |
| Selenium                                | 50     | mcg |  |
| Copper                                  | 600    | mcg |  |
| Manganese                               | 2.5    | mg  |  |
| Chromium                                | 125    | mcg |  |
| Sodium                                  | 450    | mg  |  |
| Potassium                               | 700    | mg  |  |

| Beta Carotene          | 105   | mg |
|------------------------|-------|----|
|                        |       |    |
| Natural Phytonutrients | of    |    |
| Spirulina platensis    | 25000 | mg |
| Phycocyanin            | 7000  | mg |
| Chlorophyll            | 500   | mg |
| Carotenoids            | 235   | mg |
| Gamma Linolenic Acid   | 650   | mg |
| Glycolipids            | 1000  | mg |
| Sulfolipids            | 50    | mg |
| Polysaccharides        | 2300  | mg |
|                        |       |    |
| Xanthophylls           |       |    |
| Myxoxanthophyll        | 45    | mg |
| Zeaxanthin             | 40    | mg |
| Cryptoxanthin          | 5     | mg |
|                        |       | 1  |

#### PACKING SPECIFICATION

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

#### **Amino Acids**

| Isoleucine    | 175 | 0 mg |
|---------------|-----|------|
| Leucine       | 270 | 0 mg |
| Lysine        | 145 | 0 mg |
| Methionine    | 70  | 0 mg |
| Phenylalanine | 140 | 0 mg |
| Threonine     | 160 | 0 mg |
| Tryptophan    | 45  | 0 mg |
| Valine        | 200 | 0 mg |
| Arginine      | 215 | 0 mg |
| Cysteine      | 30  | 0 mg |
| Glutamic Acid | 455 | 0 mg |
| Histidine     | 50  | 0 mg |
| Tyrosine      | 150 | 0 mg |
|               |     |      |

Manufactured by



5 mg

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Restores Pond Ecosystem by Reducing the Sludge

Ecotoxnil is a microbial formulation of three bacterial strains used in restoring the distorted aquaculture ponds.

Ecotoxnil® bacteria neutralises certain toxic elements and compounds from soil and water in aquaculture ponds. This leads to restoration of the pond ecosystem. Hence, the cultivatable species is able to live normally and grow faster leading to commercially viable aquaculture practice benefiting the farmer.

#### **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.

# Ecotoxnil®can be used

- Wherever artificial feeding is done
- In lagoons where aquaculture is carried out in traditional methods or cages
- In ponds where water exchange is not possible
- In aquaria, marine parks where there is lesser scope for cleaning by frequent human intervention
- In farmed aquaculture species Penaeus monodon, Litopenaeus vannamei, Macrobrachium rosenbergii, Indian major carps, Pangascius at high stocking densities, crabs, etc.,

# Other benefits of Ecotoxnil®

- Restores pond bottom condition by degrading the uneaten feed, faecal matter, casts of cultured shrimp
- Reduces the nitrite levels by denitrification process initated by the bacterial strains
- Modulates water quality by decomposing organic matter which cause turbidity and provides the desired stable bloom for the cultured species
- Decomposes dead Lab lab and reduces sludge formation
- Controls the floating red algae
- Digests detritus in the pond bottom
- Helps in healthy moulting, avoids wastage of feed and promotes growth indirectly















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Restores Pond Ecosystem by Reducing the Sludge

#### Suggested Dosage

Use 1.5 kg to 2 kgs of Ecotoxnil®per hectare based on your pond condition.

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

#### **Application Frequency**

Once in 10-15 days.

# How to use Ecotoxnil ?

- Ecotoxnil has performed well when applied in the morning hours and by ensuring that aerators are operated after usage at appropriate dosages.
- Improve the total alkalinity levels above 140 ppm for satisfactory performance of Ecotoxnil."

## Packing Specification

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

#### Stability

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

#### Composition per 1000 gm

Bacillus pumilus ABPL 142  $(5x10^{\circ})$  5.0 g  $(5x10^{9})$  5.0 g Bacillus pumilus ABPL 144  $(5x10^{9})$  9.0 g Bacillus safensis ABPL 140 Excipient q.s

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Tablets (India) Private Limited

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#### Marketed by



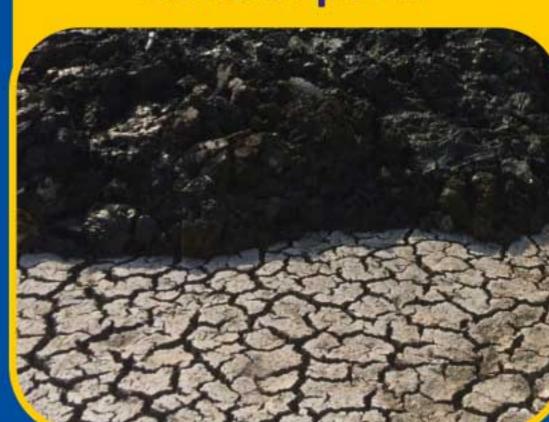
(Animal Health Division of Tablets (India) Private Limited) 72, Marshalls Road, Chennai - 600 008, India Web: www.tabletsindia.com

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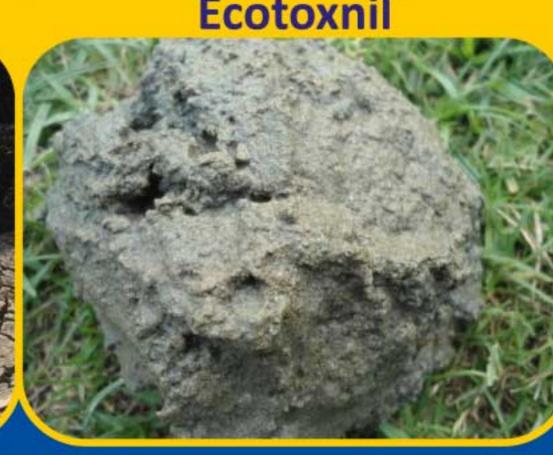
#### Registered with Coastal Aquaculture Authority as Antibiotic-free Product CAA No: CAA/F16/PRO/00007

# **Product performance**



















#### 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.







Optimises water quality & restricts pathogenic bacteria

# Water / Soil Probiotic For Aquaculture

Ecotrax® is a culture of seven microorganisms modulated to perform wide range of functions in aquaculture

Out of several hundreds of Bacillus strains, seven strains were chosen by us after repeated screening for their potential water / soil probiotic characteristic features.

# Role in aquaculture

Develops healthier bloom by nourishing the water with the enzymes produced by the bacteria

Reduces the incidence & development of filamentous algae

Enables proliferation of beneficial phyto & zooplankton and they form the natural feed for the freshly stocked post larvae

Degrades the metabolic organic & inorganic waste in the pond bottom

Removes pathogenic bacteria thereby improves survival

Reduces higher pH gradually

Improves feeding & overall health of the cultured species

# Beneficial enzymatic activity of Ecotrax strains for use in Aquaculture



Amylolytic activity Amylolytic activity



Proteolytic activity of ABPL 026 Protein 5% & Protein 1%







Proteolytic activity of ABPL 026, ABPL 105, ABPL 106 & ABPL 144



Proteolytic activity of



Proteolytic activity of ABPL 106 Protein 5% & Protein 1%



ABPL 144 Protein 5% & Protein 19

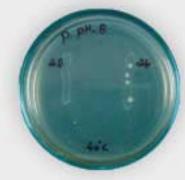


Phosphatase activity of Phosphatase activity of ABPL 25 ABPL 26

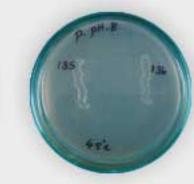




Phosphatase activity of **ABPL 142** 



Phosphatase activity of **ABPL 144** 



Phosphatase activity of **ABPL 105** 

Beneficial antagonistic activity of **Ecotrax**® strains against pathogens



**ABPL 144** 



**ABPL 025** 



**ABPL 026** 



**ABPL 105** 







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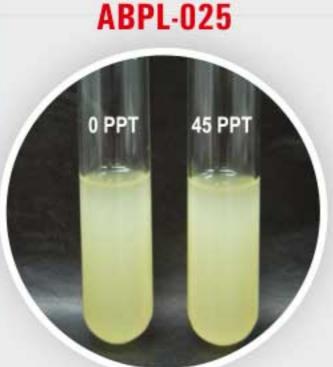


Optimises water quality & restricts pathogenic bacteria

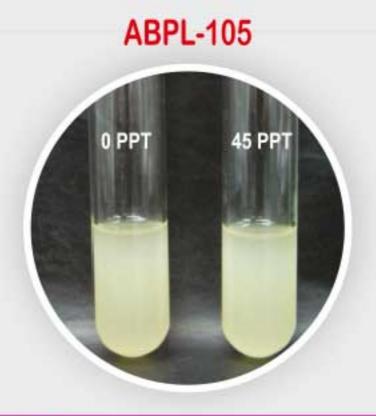
# Water / Soil Probiotic For Aquaculture

Effectiveness of  $Ecotrax^{(R)}$  in wide range of salinities (0 - 45 ppt)













# Growth of cultures indicates that **Ecotrax**® bacteria grow in "0" ppt to "45" ppt

Dosage should be based on the levels of salinity & alkalinity. If salinity is low below 10 ppt increase dosage **Ecotrax**<sup>®</sup> 50 - 100 gms per hectare. If total alkalinity is less than 120 ppm please use 40 - 60 Kgs of lime & apply the recommended dosage of **Ecotrax**<sup>®</sup> after 24 hours

#### PACKING SPECIFICATION

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

#### 500 gm contamination free pack

#### **Economy pack**

1 kg x 25 packs in a shipper

#### STABILITY

Ecotrax is stable for 18 months from the ROUALITY date of manufacture

# Dosage

| SD / M <sup>2</sup>      | Oty (gms)  | Frequency | Total Qty |
|--------------------------|------------|-----------|-----------|
| 10 - 20 / M <sup>2</sup> | 200 / acre | 7 days    | 3 Kgs     |
| 20 - 30 /M <sup>2</sup>  | 400 / acre | 7 days    | 6 Kgs     |
| 40 - 50 /M <sup>2</sup>  | 600 / acre | 7 days    | 10 Kgs    |

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

er

Organic derivatives)

for organic aquaculture

for organic Aquaculture

#### Composition per 1000 gms

| Bacillus subtilis     | 2 x 10 <sup>10</sup> |
|-----------------------|----------------------|
| Bacillus cereus       | 2 x 10 <sup>10</sup> |
| Bacillus subtilis     | 2 x 10 <sup>10</sup> |
| Bacillus subtilis     | 2 x 10 <sup>10</sup> |
| Bacillus pumilus      | 2 x 10 <sup>10</sup> |
| Bacillus pumilus      | 2 x 10 <sup>10</sup> |
| Bacillus mesentericus | 2 x 10 <sup>8</sup>  |
| Excipients            | q.s                  |
|                       |                      |

Manufactured by



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(Animal Health Division of Tablets (India) Limited)
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® - Registered Trade mark of Tablets (India) Limited







Biologically eliminates Vibrio

Tested & Proven in Shrimp Hatcheries & Grow Out Farms

Aquaculture animal feed supplement

Biologically

Litopenaeus vannamei and Penaeus monodon production from the hatchery to the grow out phase is suppressed by luminous Vibrio and / or viruses.

Virulence of pathogenic bacteria can be controlled by adding selective bacterial species in NOVIB.®

Novib includes two species as composition of specific microbial community that grow and multiply rapidly and dominate the pathogens.

#### 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.

A Product for Success





















Tested & proven in shrimp hatcheries & grow out farms







Biologically eliminates Vibrio

Tested & Proven in Shrimp Hatcheries & Grow Out Farms

Aquaculture animal feed supplement

**Applications** 

In shrimp and scampi hatcheries

- Reduces occurrence of *Vibrio* infestation in nauplii, protozoea, mysis and post larvae
- Increases conversion rate from nauplii to protozoea to mysis to post larvae
- Completely eliminates luminescent bacteria in larval rearing tanks
- Larval stages gain health and are active
- Resultant post larvae are of uniform size with good pigmentation

In grow out farms

- Eliminates pathogenic Vibrio species from the culture water
- Develops beneficial bacteria in the culture water
- Reduces bacterial shell disease by eliminating luminescent bacteria on the animal
- Usage of Novib in the water once in every 10-15days controls yellow and green bacterial colonies in the water
- Regular usage of Novib in the feed reduces vibrio in the shrimp

Precaution

In Hatcheries

Provide aeration up to 3 hours after application of **NOVIB**<sup>®</sup> for effective performance

In grow out farms

Apply NOVIB® between 9-11 am and operate aerators for 4-5 hours after application of **NOVIB** for effective performance

**Storage:** Store in a cool place. Protect from light

Shelf Life: Best before 18 months from the

date of manufacture

Each 500 g contains

Bacillus subtilis ABPL 154 3.5 x 10° Bacillus cereus ABPL 155 12.5 x 109 Excipients q.s

1 to 1.5 ppm of **NOVIB**® to be dissolved and evenly poured in the larval rearing tank on daily basis after the water exchange.

Dosage

In shrimp, scampi hatcheries

1.5-2 ppm of Novib<sup>®</sup> to be dissolved in water

In grow out farms

1Kg / Hectare for 1 m water depth, based on the degree of Vibrio infestation or 10-20 gms per Kg feed if administered through feed.

Based on the stocking density and days of culture / depending upon the daily feed uptake

PACKING SPECIFICATION

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

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எக்ஸ்ட்ராமின் एक्स्ट्रामिन ఎక్స్ట్రీటామిన్ এক্সট্রামিন ଏକ୍ସଟ୍ରାମିନ୍

# Essential minerals with Lysine for superior growth and weight gain

#### 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.

#### Applications of Extramin<sup>™</sup>

- Extramin<sup>™</sup> nourishes shrimp with nutritive minerals essential for the exoskeleton development
- Extramin<sup>™</sup> improves osmoregulatory capacity in shrimp.
- Extramin<sup>™</sup> with its readily bioavailable minerals for the shrimp prevents soft shell and improves ABW.
- Extramin<sup>™</sup> recovers shrimp ponds with muscular cramps and white muscles
- Extramin<sup>™</sup> provides nutrients to the pond or tank water for developing optimal bloom to develop favourable phytoplankton, diatoms which from the diet of shrimp post larvae / fish fry.
- Extramin<sup>™</sup> induces alkaline levels required for favourable bloom development.
- Extramin<sup>™</sup> meets the requirement of mineral levels for successful growth of shrimp / fish at higher stocking densities.
- Extramin<sup>™</sup> improves alkalinity thereby results in improved colonisation of beneficial probiotic bacteria which in tum aids biofloc development.
- The biofloc developed by Extramin<sup>™</sup> helps in meeting the post larval feed requirements (particularly while shifting from hatchery to grow out) which improves the survival of post larvae and fish fry.
- Extramin<sup>™</sup> supports moulting thereby promotes growth.
- Extramin<sup>™</sup> is an unblemished blend of essential micro and macro minerals with Lysine for versatile usage in the animal feed industry.
- Extramin<sup>™</sup> is a complete solution for undernourished freshwater, low salinity, brackish water and man made ecosystems capable of developing primary productivity and also meeting the requirement of essential minerals of the cultured species.







எக்ஸ்ட்ராமின் एक्स्ट्रामिन ఎక్స్ట్రీటామిన్ এক্সট্রামিন ଏକ୍ସଟ୍ରାମିନ୍

# Essential minerals with Lysine for superior growth and weight gain









#### When can Extramin<sup>™</sup> be used?

#### In Penaeus monodon and Litopenaeus Vannamei

Extramin<sup>™</sup> is to be used during early days of water culture in low saline areas, lesser nutrient water areas and in chlorinated ponds.

Extramin<sup>™</sup> can be used intermittently whenever there is a collapse in bloom.

Extramin<sup>™</sup> can be used during the later days of culture when transparency is not able to be maintained.

In freshwater fish culture & cage culture (in lagoons, dams)

Extramin<sup>™</sup> may be used in early days of the stocking fish fry to develop bloom development and for making natural food available in the pond thereby enhancing the survival of the newly stocked fry.

Extramin<sup>™</sup> can be used along with the traditional or pellet feed (10 gms per kg feed) for improved growth and weight gain.

Extramin<sup>™</sup> can be used regularly during the last 30 days of culture for more weight gain.

#### Dosage for L. vannamei

#### For bloom development and to enrich nutrient levels in the cultured pond water

1.5 Kg of Extramin per acre at 3 feet water depth or 3kg / acre at 5 feet water depth for 1-1.5L seeds at 5-8 water salinity in Vannamei shrimp culture.

Mix the required quantity in 10-30 litres of water and broadcast 3-4 metres away from the bund slope of the pond.

#### With feed For shrimp

Extramin<sup>™</sup> can be used along with the feed at the rate of 5 gms per kg if the exoskeleton of shrimp is found to be brittle.

#### For fish

Use 20 gms of Extramin<sup>™</sup> per Kg of feed for fish (*P. monodon* and *L. vannamei*) along with the feed for easier absorption which will yield to higher tissue conversion.

**Animal Feed Supplement** for use in Aquaculture only

#### Composition

Blend of essential and nutritive minerals with Lysine.



Manufactured by



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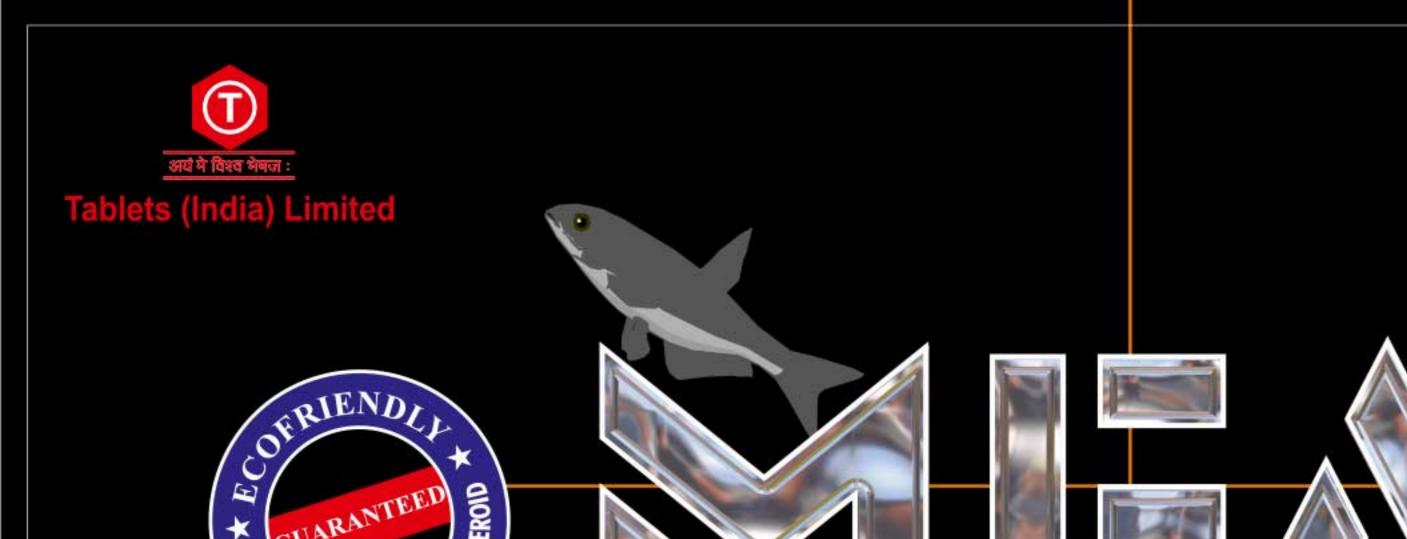
TIL Biosciences

(Animal Health Division of Tablets (India) Limited) 72, Marshalls Road, Chennai - 600 008, India Web: www.tabletsindia.com

For consumer related enquiries contact +91-44-42050000 or E-mail: tbs@tabletsindia.com

Registered with Coastal Aquaculture Authority as Antibiotic-free Product CAA/F16/FA/00013

(India) Limited



CONTAIN ANTIBI







Biologists say that fish eat fish for their attracting property. Crustaceans are primarily chemosensory feeders, hence attractants are important components of their feed. Attractants mostly are proteins from marine origin like fish meal. Attractants get deteriorated when the processing of shrimp feed takes place at a very high temperature over 180°C. Maximum feed conversion can take place only when the feed provided is ingested.

The use of dietary feed attractant or stimulant for cultured species is essential to evoke an acceptable and rapid feed response.

Biologists say that fish eat fish for their attracting Feed stimulant also improves feed palatability as the property. Crustaceans are primarily chemosensory period of time of the feed remaining in the water can feeders, hence attractants are important components be reduced, thus minimizing nutrient leaching.

R

Generally aquaculture feeds are compounded with numerous ingredients to form pellets with varying protein, carbohydrate, lipid ratios. These components are held together in pellet form using binder during manufacturing process.

- Stimulates Feed Intake
- Promotes Growth
- Promotes Good Health
- Reduces FCR
- Increases Survival Rate
- Used to Bind Feed Supplements



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.

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.



# Eat aquaculture products for balanced diet

### "Multifunctional Feed Attractant"

#### What is MFA?

MFA is a standardized liquid extract with plant constituents, devoid of antibiotic and steroids, which aids in preventing digestive disorders, developing immunity, reducing FCR, increasing survival and stimulating appetite.

prawn / fish eat more and quickly, which results in good growth in a short period of time thereby reducing the food conversion ratio. Aquaculture farmers use various feed supplements to enhance the performance of feed, prevent disease etc.,

MFA is a liquid aquaculture feed supplement which can also be used as a binder to top coat feed supplements, thereby reducing feed wastage in the form of fines.

MFA is designed for easy digestion in biodegradable form, reduces the destruction of vitamins and improves the feed utilization ratio.

#### **INGREDIENTS:**

Alpinia galanga: It is useful in developing appetite.

**Trikatu**: Trikatu possess appetite stimulant effects, improves the movement of feed in the gut. Trikatu supports healthy metabolism, allowing nutrients to be properly digested and assimilated thus aiding weight management.

Foeniculum vulgare: It is used to prevent loss of appetite and digestive disorders.

Emblica officinalis: Strengthens the defence mechanisms induced during stress conditions like changes in environmental parameters.

Bacopa monnieri: Has antioxidant properties and helps developing immunity.

Withania somnifera: Has antistress, immunomodulatory properties. It helps in digestion and increases metabolism, feed consumption and body weight.

**Direction for use:** Use 30-40 ml of MIFA to mix with 1 Kg of feed. Mix thoroughly for uniform dispersal. Best performance can be observed within 2 hours of mixing MIFA and broadcasting the feed.

**Presentation:** 5 liters can and 25 liters fibre drum.

**Stability:** MIFA® is stable for 2 years from the date of manufacture.

#### Composition per 1000 ml

Alpinia galanga - 4 g
Trikatu - 4 g
Foeniculum vulgare - 3 g
Emblica officinalis - 5 g
Bacopa monnieri - 5 g
Withania somnifera - 5 g



Registered with Coastal Aquaculture Authority as Antibiotic-free Product CAA/F16/FA/00012















Manufactured by



ज्य मे किस्त भेगवः Tablets (India) Limited

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# Encourages post larval survival

COFRIEND & SUCCESSION ANTIBION.

निक्षाणां के ईकोमास्क **कड़ें क्रांश्री क्रिनाश्र के रे**कोमास्क

#### **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.

Tablets (India) Limited's research desk after a decade of exposure in the aquaculture industry, identified that the early mortality is a major obstruction in shrimp farming.

The present investigation led by a premier research laboratory and the Research & Development lab of Tablets (India) Limited found that the Acute Hepatopancreatic Necrosis Disease (AHPND) was predominantly caused by *Vibrio parahaemolyticus*. This mostly takes place within 45 - 60 days in the shrimp farm operations, post stocking at the grow out ponds. This leads to huge economic loss to the farmers. This has emerged as a devastating disease in the shrimp industry.

Upon continuous intense research for about 5 years, this team was able to develop a non – antibiotic phytochemical formulation against this fatal disease out break. After detailed and repetitive studies an effective synergistic formulation with antimicrobial activity was developed using non - antibiotic phytochemical compounds. This combinatorial therapy effectively acts against disease causing bacterial pathogen. They are phytochemicals with biologically active substances extracted from non harzardous natural resources.

The present formulation is found to be user friendly, highly effective with no side effects, devoid of antibiotic, steroids and hormones. Therefore, this formulation is potential to target bacterial challenges and to be a suitable alternative to antibiotic usage. During the critical phase of such a disease occurrence the formulation exhibits its potency in treating the infections thereby decreasing the mortality rate. Further, exhaustive study on phytochemical compounds have found that the efficacy of a single bioactive compound could be logarithmically enhanced, when it is used in combination of selected synergistic compounds rather than a single one.

Based on this concept Ecomask was formulated. This permutation of Ecomask is highly stable for long period of time with long lasting activity without much storage specifications and eco-friendly in nature.





# Encourages post larval survival

CORRIENDA \* GUARANTEED

\* GUA

मिक्षाणां के ईकोमास्क **वर्डं क्रांश्वर्श क्रिक्र क्रिक्र वर्डं** क्रिक्र शिश्व रेक्नियाञ्च

Ecomask has been designed to mask bacterial and related syndrome which affect post larval survival after stocking shrimp.

Protect the post larval survival upto 45 – 60 days which is the most fragile period in shrimp farming.

Promotes uniform growth between the treated and the untreated during the early phase of culture.

Promotes reduced FCR among the treated shrimp.

Composition

ECOMASK<sup>®</sup> is a synergistic blend of dicalcium phosphate,

- terpenoids and phenolic compounds derived from natural resources.

  The blend is completely non reactive with inert binders for use in aquaculture.
- 5 gmsof ECOMASK per Kg of feed.

Dosage

- ECOMASK to be administered both in the morning and evening meals upto 45 days.
- ECOMASK is to be mixed with a good binder.

**Usage** 

Usage of ECOMASK may be extended beyond 45 days based on the performance.

Shelf Life

Best before 18 months from the date of manufacture, if stored in dry place under 38°C

For Aquatic Animal Feed Supplement use only Not for Human Consumption Manufactured by



Tablets (India) Limited

Plant 2: 555/32,T.H.Road,Chennai - 600 081,India

Marketed by



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From the Feed Supplement Experts

Loaded with beneficial acids for shrimp gut health

Tested Dependable

# Composition

Ecoclean<sup>®</sup> is a fine blend of ascorbic acid, essential minerals and vegetable derivatives that produce organic acids. The above blend is thoroughly mixed with an inert excipient. Ecoclean<sup>®</sup> is a complex material of various organic compounds like ascorbic acid (vitamin C), bioflavonoids (vitamin P), amino acids, citric peptides, fatty acids, pectin polypeptides, tocopherols

# **Applications**

- The synergism of the compounds in Ecoclean® has excellent stability and higher bioavailability when administered through the feed to shrimps. The different concentrations of lactic acid, acetic acid, propionic butyric acid, formic acid together with citric acid and macromineral make Ecoclean® a formidable combination to eradicate all array of pathogens in the shrimps digestive system.
- Ecoclean® broadens the spectrum of biological activity with wide range of benefits
- The properties of Ecoclean®as an organic acidifier enable to destabilize the pathogenic bacteria in the shrimps
  - The exclusion of pathogenic bacteria from the shrimps and mono-gastric fish intestine create more space for digestive absorption of nutrition. This absorption of nutrients and vitamins help in lowering the food conversion ratio (FCR)
- Ecoclean<sup>®</sup> plays a dominant role as an anti oxidant
- Ecoclean® minimizes intoxication mainly caused by rations contaminated by mycotoxins
- Ecoclean® at right dosages protects the beneficial flora in the intestine of shrimps that help in reducing white gut leading to white feces
- Ecoclean® plays a key role in controlling risk factors caused by white gut / white feces and improves the commercial productivity in farmed shrimps
- **Ecoclean®** protects the pancreas against toxins, thereby keeping shrimps healthy





- During the infestation of white gut/white feces, add 5-10 g of Ecoclean® per kg of shrimp feed (to be administered) on daily basis in all feeds for upto 5-7 days
- Use Ecoclean for atleast 6 days in all feeding schedules continuously
- After 6 days, supplement 6 a.m. schedule with 5 gms of Ecoforce per kg feed & 5 gms Exorich in the 6 p.m. schedule
- The noon schedule should continue with Ecoclean at 5 gms per kg feed. This ensures better recovery from the white gut / feces infestation
- The amino acids in Exorich compliment to the additional energy requirement to recovering shrimps
- The beneficial bacteria in Ecoforce restabilize the microbial flora in the shrimp gut

Shelf Life: Best before 18 months from the date of manufacture, if stored in dry place under 38°C **Animal Feed Supplement** 

Manufactured by



<u>अरो में विश्व गेपज</u>ः Tablets (India) Limited

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Trade Mark Registered







मिक एकोम्निल **रेकाभानिन ଏକୋମୋନିଲ୍ ಎ**ട್ മുଣ

#### 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.

Completely plant origin

Secures shrimp from toxic gases like ammonia

Aquaculture feed supplement 500 gms







Ecommonii is a purified extract and a concentrate of *Yucca schidigera* (of ethnobotanical importance) with excipients for use in aquaculture as feed additive to reduce toxic ammonia level

#### **Benefits**

Unlike other *Yucca schidigera* the processing methodology of **ECOMMONII** is unique to reduce ammonia in shrimp culture ponds

- Reduces chemical oxygen demand
- Improves loss of oxygen levels due to ammonia
- Improves health, growth (moulting)
- Restores to conducive environment for optimal shrimp production

# Composition

Yucca schidigera extract with excipients

Appearance - Light beige color powder

## Dosage

- Along with feed 10 gms / kg of feed
- For pond water upto 1 acre 500 gms

## Storage

Store in a cool and dry place

#### **Shelf life**

Best before 18 months from the date of manufacture

Registered with Coastal Aquaculture Authority as Antibiotic-free Product CAA No: CAA/F16/FA/00008

#### **PACKING SPECIFICATION**

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

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# **Binds supplements**

A distinct natural combination of bioactive peptides and soluble polysaccharides as aquaculture feed supplement and binder



# Unique functions of XL Bind®

The bioactive peptides present in the fish protein hydrolysate possess anti-microbial, immuno-modulatory, antihypertensive, anti-oxidative and appetite enhancing ability. Thus, plays a multifaceted role in developing healthy shrimp. Guar gum in **XL Bind**® improves the mobility of digested feed in the gut region and thus facilitates intestinal absorption, leading to good growth and survival of the animal.

## **Key features**

- Binds supplements to the feed
- Boost immunity
- Increases intestinal absorption of nutrients
- Increases appetite
- Increases feed palatability
- Enhances feed response
- Biodegradable and bioavailable
- Reduces the destruction of nutrients in feed
- Improves feed utilization ratio

- Promotes growth
- Increases survival rate

#### 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.







# **Binds supplements**

A distinct natural combination of bioactive peptides and soluble polysaccharides as aquaculture feed supplement and binder





Fish protein hydrolysate - 1.925 kgs

Guar gum - 100 gms

Excipients - q.s.



Dilute 1 litre of XL Bind® with 125 - 150 ml of water and then add 20 - 30 ml of the solution to 1 kg of shrimp feed. Consult your Aquaculture Consultant or our TSE for further details

#### Presentation

5 litre contamination free closed can

#### Stability

Best before 18 months from the date of manufacture, if stored in dry place under 38°C

Tested and proven successful in grow out farms

Manufactured by



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Registered Trade Mark of Tablets (India) Limited











(Minerals and amino acids for improved aquaculture)

# **ESSMIN PLUS** (Minerals and amino acids for improved aquaculture)

Essmin Plus<sup>®</sup> is a stable amalgamation of essential minerals and amino acids. Essmin Plus<sup>®</sup> is required for culture of fish and shrimp (*Litopenaeus vannamei*) at high stocking densities.

Their requirement is highly significant in maintaining shrimp health as deficiency of essential minerals, will cause harm to the cultured species. Intensively cultured species involves high stocking, which subsequently leads to higher uptake of minerals from water and through the feed. The demand increases as the culture progresses. Supplementing Essmin Plus® becomes an uncompromised scenario in captive farming.

## Unique functions of Essmin Plus®

Essmin Plus® play a key role in development of exoskeleton, bones and scales in fishes, soft tissues, maintenance of osmotic pressure and acid-base balance, regulation of water and solute exchange, activates several key enzymes, maintain cell membrane permeability and uptake of nutrients, cell metabolism and detoxification through the feed.

Essmin Plus® when applied through the water provides nutrients to the water for bloom development and nourish the water which is required at high stocking densities (for fish / shrimp)



# **Key features**

- Provides nutrients to the water, accordingly the development of optimal bloom in the pond
- Assemble the nutrient requirement of the cultured species
- Improves alkalinity
- Support biofloc development
- Controls white muscles
- Controls muscular cramps







#### 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.





# Essmin Plus®





(Minerals and amino acids for improved aquaculture)

#### Composition per 1000 gms

Calcium 300 gms Magnesium 13 gms Sulphur 10 gms Zinc 9 gms 9 gms Potassium 1.5 gms Iron Copper 1.25 gms Manganese 596 mg Lysine hydrochloride 19 gms Excipient q.s



Regular usage: 5 - 10 gms / kg of feed Treatment: 10 - 15 gms / kg of feed For early water culture 10 - 15 kgs / acre For mid and late water culture 15 - 20 kgs per acre

#### Presentation

10 kgs woven sack bag

#### Stability

Best before 18 months from the date of manufacture

Registered with Coastal Aquaculture Authority as Antibiotic-free Product CAA/F16/FA/00009









Manufactured by



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#### Vision

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ப்ரஷ்மின் எப் फ्रेसमीन एफ រុំតំងារតំ ఎឆ់ ফ্রেসমিন এফ ଫ্রেম্পিন এফ্

(DEFINED TO NOURISH)

About 20 recognized inorganic elements are essential for multiple functions in the body of fish. Most of them are macro-elements required in considerable quantities while micro-elements are required in lesser quantities. These micro minerals have a greater role in fish nutrition for higher and captive production.

In the early 1950's, naturally occurring inorganic elements were considered to be essential for fish. Dietary requirements for high density fish culture require macro-minerals such as Ca, K, Mg, Na and P and micro-minerals such as Cu, Fe, I, Mn, Se and Zn for almost all fish species.

In commercially cultivable ponds, the available natural resources are unable to provide the required nutrition to the fish in culture. Factors such as species group, digestive physiology, type of diet used, dietary interactions, type of mineral source and mineral concentration in the water affect the dietary inclusion levels of certain minerals.

Taking the above factors into consideration Fresmin  $F^{\mathsf{TM}}$  has been developed after long term investigations with different sources of water from deep bore well, riverine systems and run off.

Fresmin  $F^{\text{m}}$  is a free flowing powder of macro, micro minerals and amino acid.





# ப்ரஷ்மின் எப் फ्रेसमीन एफ कि प्राप्तिक विक (DEFINED TO NOURISH)

#### Composition: Blend of macro, trace minerals and amino acid

#### Calcium and Magnesium

- These divalent salts are essential in the biological process of fish growth
- They are necessary for bone formation, blood clotting
- Fishes can absorb these minerals directly from the water or feed

#### Sulphur

It is a major component required for fish

#### **Potassium**

- Helps in the conversion of carbohydrates into energy from proteins, build muscle
- Helps keep pH levels in the tissue

#### Copper and Zinc

Plays a vital role in lipid, protein and carbohydrate metabolism

#### Iron

Play a significant role in helping the red blood cells carry oxygen to all cells and tissues

#### L - Lysine

- Helps in the development of skeletal muscle cells and liver
- Helps in maintaining osmotic pressure and acid base balance in the body fluids
- Play a major role in development of gastrointestinal system and immune system function
- Enhances protein deposition in the body

# Advantages of using Fresmin F

- Fresmin F<sup>™</sup> enhances the primary and secondary production in freshwater fish pond (phyto & zooplankton)
- Fresmin F<sup>™</sup> accelerates the digestibility of feed
- Fresmin F<sup>™</sup> promotes better growth and survival of freshwater fishes

#### Usage

#### Along with the feed

- For Indian major carps, Pangasius and other fish farming 10 - 15 gm / Kg of feed (traditional feed, sinking and floating feed) throughout the culture period
- For nursery rearing of Indian major carps, Tilapia and Pangasius 15 – 20 gm / Kg of feed (traditional feed, sinking and floating feed) up to 3 months

#### For water culture

- 3 5 Kgs / acre at 15 days interval
- Mix Fresmin F<sup>™</sup> with equal quantities of sand and broadcast over the pond water

#### Suggestion

Lime must be applied 24 hours before application of Fresmin F™

#### Presentation

10 Kgs woven sack bag

#### Storage

Store in a cool and dry place

Manufactured by



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Rhodomax<sup>®</sup> is a formulation of prebiotics and probiotic bacteria with red yeast to modulate the intestinal ecology of fishes for enhanced survival and growth



#### 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.













# Rhodomax® Unicellular force for more fish production



Rhodomax<sup>®</sup> is a formulation of prebiotics and probiotic bacteria with red yeast to modulate the intestinal ecology of fishes for enhanced survival and growth

# Uses of Rhodomax®

- Optimize the intestinal pH
- Eliminates pathogenic bacteria in the intestine
- Enhances feed assimilation and promotes better health
- Increases growth and improves profitability
- Shortens culture period by reaching harvestable size faster











#### Dosage

a.For fish fry (upto 60 days) - 10 gm per kg feed b.For grow out (beyond 61 days) - 5 gm per kg feed

#### Storage

Store in a cool dry place. Keep the pouch tightly closed after every usage.

#### **Precautions**

Do not use in presence of acids or disinfectants or antibiotics.

To be top coated with pellet feed and broadcasted or to be mixed along with traditional feed and broadcasted and pegged in feed bags

#### **Packing Specification**

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

Rhodomax® profit enhancer

Rhodomax<sup>®</sup> gut manager

Rhodomax® feed performance enhancer

Registered with Coastal Aquaculture Authority as Antibiotic-free Product CAA/F16/PRO/00011

#### Composition per 1000 gms

Streptococcus faecalisT-110  $^{™}$  - 2.0 gmBacillus mesentericusTO -A $^{™}$  - 1.5 gmClostridium butyricumTO -A $^{™}$  - 1.0 gmRed yeast- 6 gmExcipient- q.s

#### Manufactured by



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# Contact Us:



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