

Aquaculture Health Solutions



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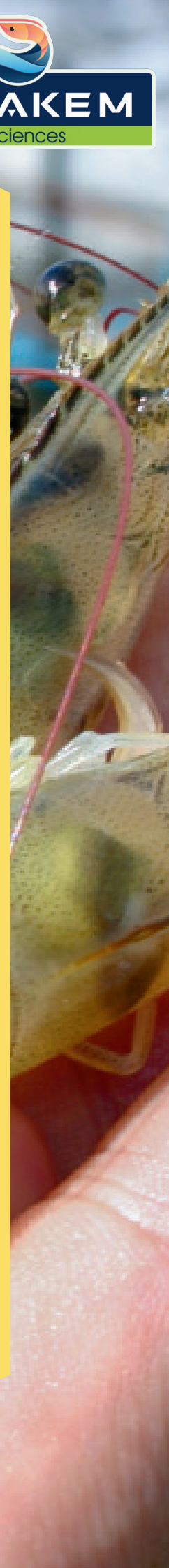
About The Firm

Novakem Biosciences, a partnership firm based in Nellore, is a leading provider of scientific solutions for sustainable shrimp and fish farming. With a strong emphasis on specialty products and problem-based solutions, the company has emerged as a key player in the shrimp health care industry. Its extensive distribution network spans across India, with over 300 distributors, and continues to grow as the company expands its reach.



Products & **Services**

- Water Probiotic : **Novafloc**
- Soil Probiotic : **Nova soil**
- Microcystis control : **Nova BG Nil**
- Feed Probiotic : **Nova gut**
- Ammonia reducer: **Novamox ANB**
- Nitrite reducer : **NovaTan**
- Mineral formulation : **Novasol Min**
- Liquid Mineral: **NovaGut-Min**
- Vitamin C : **Nova C**
- White feces control : **Nova white**
- Vibrio control in the gut : **Flavol**
- EHP & Growth : **Nova shield**
- Binder Gel : **Novabind**



Products & **Services**

- Zeolite : **Novalite Zeo**
- Dissolved Oxygen : **Novaoxy**
- Water colorant: **Nova green**
- Disinfectant : **Novasan DS**
- Sanitizer : **Novapearl-80**
- Water conditioner : **Novasoft**
- Fish parasite control : **Novacide ALF**
- Vibrio control probiotic : **Nova provib-EX**
- Nursery Probiotic : **Nova Pro-50**
- Vibrio control (Nursery & High density farming) : **Vibzet**
- Fish Probiotic : **Nova Fishpro**
- Bile Acids : **Nova Bile 45**
- White feces: **Emerald**

NOVAFLOC

BIOREMEDIATION & BIOCONTROL



Benefits

- Suitable Species selected for "Biofloc" and "Symbiotic Shrimp Farming"
- Improves Water quality
- Outcompetes Pathogenic microorganisms
- Decomposes organic matter
- Decreases biological oxygen demand and chemical oxygen demand
- Controls excess algal bloom and stabilizes water color



Composition

- Consortium of Bacillus species
- Total count :10 billion CFU/ gram
- *Bacillus Subtilis*
- *Bacillus licheniformis*
- *Bacillus polymyxa*
- *Bacillus megatherium*
- *Bacillus halotolerance*

Dosage

- 500 Grams per acre for weekly protocol (Direct application)
- 100 Grams per day symbiotic protocol with rice bran and buffer
- 1 ppm for biofloc development with C: N ratio more than 12



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NOVASOIL

TRIPLE ACTION FORMULA ON SLUDGE



Benefits

- Reduces toxic gases like hydrogen sulphide
- Improves sediment quality (Reduces anaerobic black soil)
- Reduces stress on shrimp
- Prevents black gill disease caused by poor pond bottom



Composition

- *Thiobacillus denitrificans*
- *Paracoccus pantotrophus*
- *Rhodococcus ruber*
- Total count : 10 Billion CFU/gram

Dosage

- 1 kg per acre every week
- 2 kg per acre to treat highly anaerobic sediment.



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NOVA BG NIL

SAY GOOD BYE TO BLUE GREEN ALGAE



Benefits

- Suppresses blue-green algal bloom by binding available phosphates
- Stabilizes water quality parameters
- Aids in growth of beneficial phyto and zooplankton

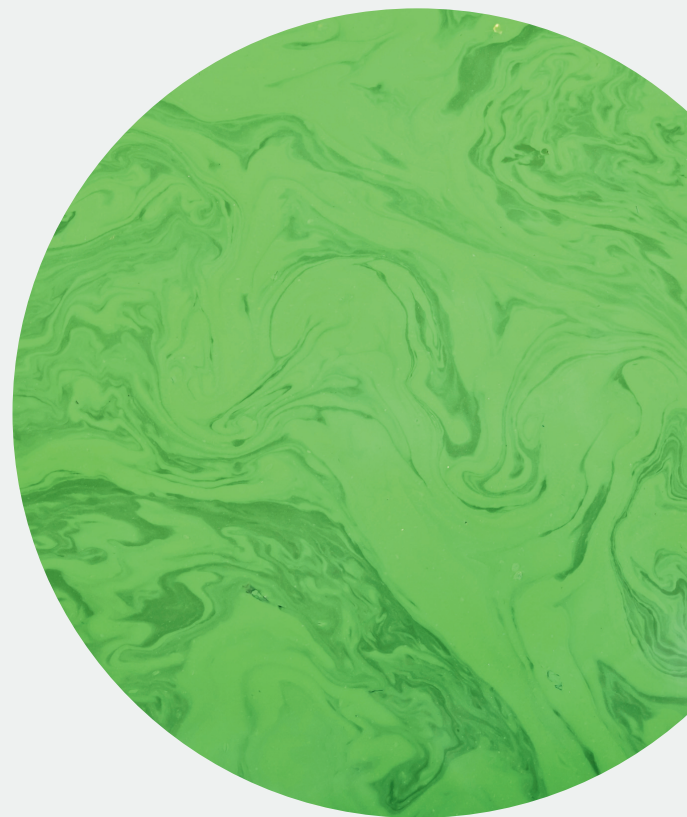


Composition

- Bacillus polymyxa
- Bacillus licheniformis
- Pseudomonas denitrificans
- Total plate count - 5 billion CFU/g

Dosage

- 1 kg per acre



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NOVAGUT

PROBIOTIC FEED SUPPLEMENT



Benefits

- Improves gut microbial balance
- competes with pathogenic bacteria
- Improves gut health
- Helps in digestion



Composition

- *Bacillus pumilus*
- *Bacillus coagulans*
- *Bacillus lichiniiformis*
- *Bacillus subtilis*
- *Pediococcus acidilactici*
- *Saccharomyces cerevisiae var. boulardii*
- Total count : 10 Billion CFU/gram

Dosage

- 10 grams per kg feed
- Daily twice for 7-10 days



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NOVAMOX

AMMONIA & NITRITE OXIDIZING BACTERIA



Benefits

- Oxidizes Ammonia to Nitrite
- Oxidizes Nitrite to Nitrate
- Reduces stress
- Reduces the carbon source application in Biofloc systems
- Speeds up the nitrogen cycle in biofilter of RAS systems



Composition

- Probiotic consortia of Ammonia and nitrite oxidizing bacteria
- NovAmox-ANB is the scientifically proven autotrophic, microbial consortia that converts toxic ammonia to nitrite and nitrite to relatively harmless nitrate

Dosage

• 5-10 lit per acre as treatment and 5 lit per acre very week as prevention (or as advised by the fisheries officer/ professional in your area)



NOVA TAN

NITRITE OXIDIZING BACTERIA



Benefits

- Reduces Nitrite
- Reduces running mortality caused by nitrite toxicity in shrimp
- Prevents brown blood disease in fish



Composition

- Probiotic Consortia of Nitrite oxidizing bacteria (CIBAMOX)

Dosage

- 5-10 lit per acre as treatment and 5 lit per acre very week as prevention (or as advised by the fisheries officer/ professional in your area)



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NOVASOL-MIN

SOLUBLE MINERAL SUPPLEMENT



Benefits

- Supplements essential minerals for shrimp Moulting and metabolism
- Helps in Moulting
- Reduces body cramp syndrome caused by mineral imbalance
- Reduces white muscle caused by mineral deficiency
- Relieves shrimp from osmotic stress in low salinity.
- Easily soluble for better bio-availability



Composition

- Macro-minerals: Magnesium, calcium, potassium and Sodium
- Microminerals : Phosphorus, Ferrous, Copper, Zinc , Manganese and Cobalt

Dosage

- 10 kg per acre
- Mix with water and apply to pond water



NOVAGUT-MIN

LIQUID MINERAL FORMULATION



Benefits

- Enhanced Metabolism and Energy Provision
- Stress Reduction and Improved Recovery:
- Improved Body Weight and Metabolic Function:
- Regulation of Ionic Composition
- Holistic Health Management



Composition:

Phosphorous 3200 mg, Copper 200 mg, Potassium 100 mg, Iodine 1000 mg, Manganese 3200 mg, Magnesium 6000 mg, Iron 5000 mg, Zinc 1100 mg, Selenium 10 mg, Cobalt 20 mg, Molybdenum 20 mg, Boron 1000 mg, Silicon 1500 mg and Sodium 19560 mg

Dosage:

Administer 5-10 ml per kg of feed, twice daily

Application:

Mix with Novabind and top dress to feed. Shade dry for 30 minutes and broadcast for optimal results.



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NOVA C

PHOSPHORYLATED VITAMIN C



Benefits

- Acts as an Antioxidant(reduces stress, prevents oxidative damage)
- Improves immunity
- Prevents Black death disease caused by vitamin C deficiency
- Synthesis of chitin
- Wound repair
- Collagen synthesis



Composition

- Phosphorylated vitamin C-35%

Dosage

- 5 grams per kg of feed
- For better binding mix with **Novabind Gel**



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FLAVOL

PHYTOBIOTIC FOR VIBRIO CONTROL



Benefits

- Effectively controls vibrio
- Controls Running mortality
- Prevents EHP spore germination



Composition

- Essential oil formulation

Dosage

- 5-10 grams per kg of feed/ Daily twice/7-10 days
- For better binding mix with **Novabind Gel**



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NOVA WHITE

PHYTOBIOTIC FOR WHITE FECES CONTROL



Benefits

- Control vibrio loads in the gut
- Supporting treatment in white feces and RMS
- Improves gut health



Composition

- Thymol- 1%

Dosage

- 5 ml per kg of feed, daily twice for 7 days
- Application
- Mix with Novabind gel and top dress to feed
 - Shade dry for 30 min and broadcast



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NOVASHIELD

HEALTH AND GROWTH PROGRAM



Benefits

- Inhibits EHP spore germination
- Inhibits quorum sensing (Reduces bacterial virulence)
- Bacteriostatic (Inhibits pathogenic bacterial growth)
- Supporting treatment during white feces
- Helps in post white feces recovery
- Compatible with probiotics
- Increases gut microbiota diversity



Composition

- Essential oils
- Immuno-stimulants
- Quorum-sensing inhibitors

Dosage

- 5-10 grams per kg of feed/ Daily twice/7-10 days
- For better binding mix with **Novabind Gel**



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NOVABIND GEL

MAXIMUM BINDING & MINIMUM LEACHING



Benefits

- Prevents the loss of feed supplements in water
- Novabind gel binds all powder formulations
- Novabind gel does not alter the palatability of feed
- Improves the bioavailability of powder supplements

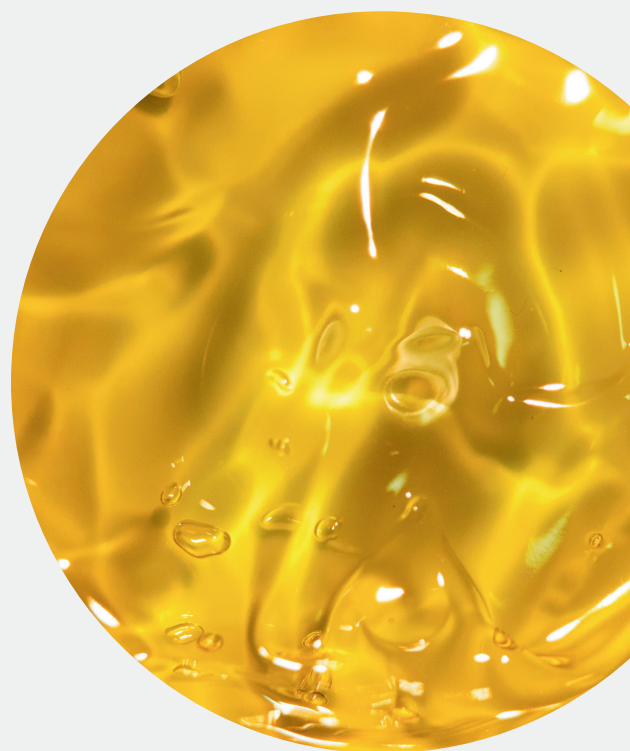


Composition

- 2% CMC
- organic acid

Method of Application

- Take required quantity of Novabind gel mix with powder supplements and top - dress to feed
- Shade dry
- Broadcast the feed



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NOVAOXY PLUS TABS

OXYGEN RELEASING TABLETS



Benefits

- Improves Dissolved Oxygen
- Immediately reached bottom
- Releases oxygen slowly
- Reduces stress on shrimp and fish



Composition

- Sodium perborate tablets
- Tablet Binders

Method of Application

- 2-5 kg per acre of pond
- Dosage to be adjusted based on DO levels and time of application



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NOVALITE ZEO

ADVANCED ZEOLITE GRANULES



Benefits

- Improves water quality
- Adsorbs toxic gases like hydrogen sulphide and carbon dioxide
- Promotes diatoms because of the silicates present in the Novalite- zeo
- Immediately reaches the pond bottom

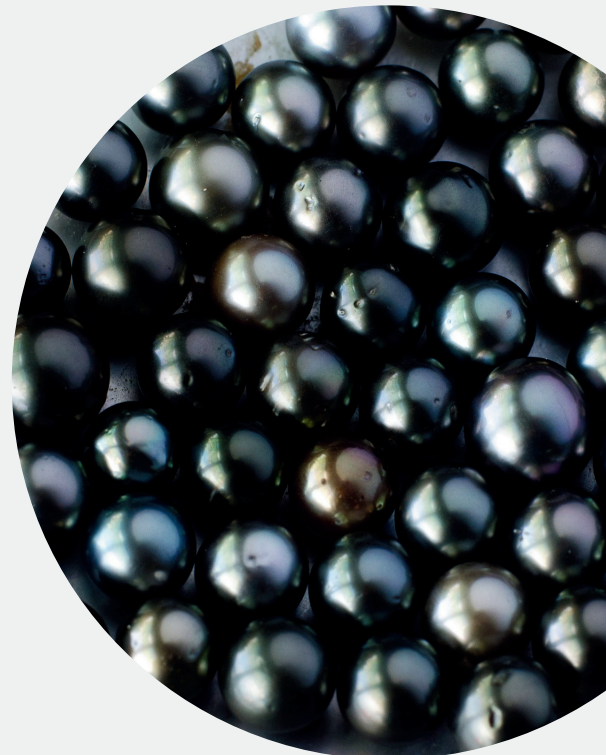


Composition

- Natural zeolite – 96%
- Activated carbon-2%
- Yucca extract – 1%
- Inert base material – 1%

Method of Application

- 10-20 kg per acre based on the bottom and water quality
- Directly broadcast to the pond



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NOVA GREEN

POND WATER COLORANT



Benefits

- Adds immediate colour to pond water
- Minimizes sunlight penetration
- Reduces stress to the shrimp
- No side effects

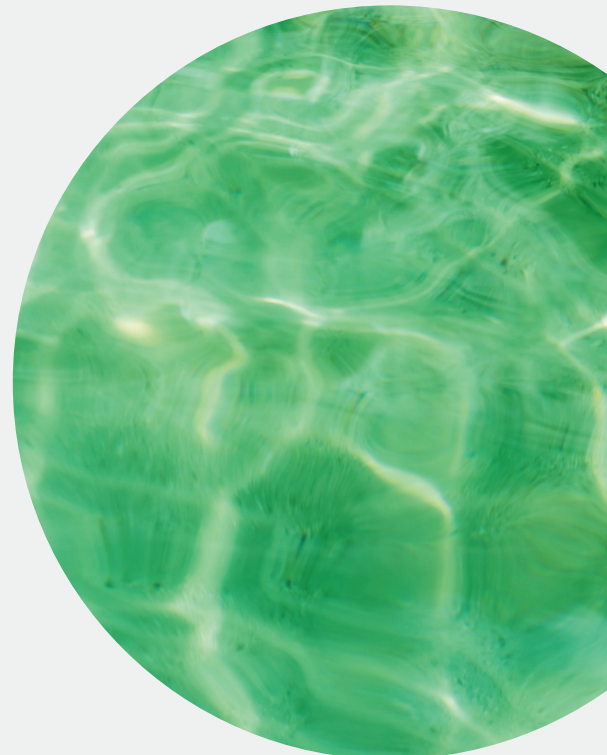


Composition

- Artificial food colorant

Method of Application

- 500 grams to 1 kg Per acre (Based on pond water depth)



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NOVASAN DS

POWERFUL DISINFECTANT



Benefits

- Kills bacterial and viral pathogens (1% solution)
- Reduces pathogenic bacterial loads (Sanitization)
- Oxidizing agent hence better choice to apply during low dissolved oxygen periods.



Composition

- Potassium mono- persulphate compound : 50 % W/W (Triple salt: potassium mono-persulphate, potassium hydrogen sulfate and potassium sulfate)

Method of Application

- Surface disinfection 1%
- For sanitization of aquaculture pond water 1-2 kg per/acre or as directed by a fisheries professional.



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NOVA PEARL-80

CLEANING AND DISINFECTION AGENT



Benefits

- Induces moulting in shrimp
- Kills bacteria
- Controls gill fouling by Protozoans in shrimp
- Controls bacterial gill disease in fish
- Cleans Shrimp body by its surfactant action



Composition

- Alkyl dimethyl benzyl ammonium chloride- 80

Method of Application

- 0.5 ppm
- Mix with water and apply to pond



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NOVASOFT

WATER CONDITIONER



Benefits

- Induces moulting in shrimp
- Reduces rough shell due to calcification
- Water conditioner



Composition

- EDTA disodium salt

Method of Application

- 0.5 ppm
- Mix with water and apply to pond



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NOVACIDE ALF

ANTI LICE FORMULATION



Benefits

- Controls Argulus
- Controls Lernaea
- Controls Ergasilus
- Controls Caligus



Composition

- CIBA paracide
- DCP base

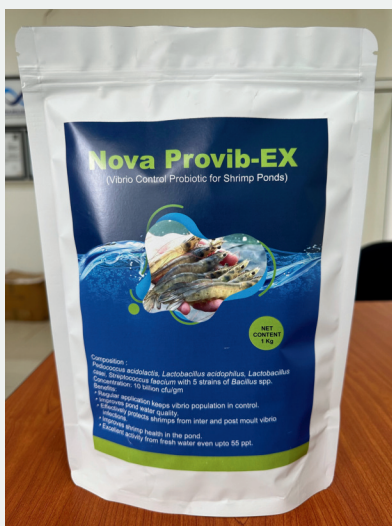
Method of Application

- 25 grams per / MT of fish/ 7 Days
- Better to apply along with approved insecticides in water
- We need to treat once more in three weeks to eliminate any newly hatched argulus resulting from the eggs laid by the argulus just before and during the initial treatment



NOVA PROVIB- EX

VIBRIO CONTROL PROBIOTIC



Benefits

- Regular application keeps vibrio population in control.
- Improves pond water quality
- Effectively protects shrimps from inter and post moult vibrio infections.
- Improves shrimp health in the pond.
- Excellent activity from fresh water even up to 55 ppt.



Composition

Pediococcus acidolactis, *Lactobacillus acidophilus*,
Lactobacillus casei, *Streptococcus faecium* with 5
strains of *Bacillus* spp.

Concentration: 10 billion cfu/gm

Dosage

- Regular Application:
- Mix 1 kg of Nova Provib –Ex in 5 liter of clean water and apply evenly throughout the pond. Apply 1 kg per acre at 1 m water depth for regular application once in 7-10 days.
- Treatment Application:
- 1st Application: Mix 2 kg of Nova Provib–EX in 5 ltr of clean water and apply evenly throughout pond.
- 2nd Application: 5 days after 1st application mix 2 kg of Nova Provib –Ex in 5 ltr of clean water and apply evenly throughout the pond



NOVA PRO-50

PROBIOTIC FOR SHRIMP NURSERY



Benefits

- Maintains good water quality and healthy pond bottom
- Regular usage reduces black soil formation, prevents ammonia build up and slime formation in lined ponds.
- Provides Optimum water quality to promote good shrimp health



Composition

- Highly concentrated encapsulated formulation containing potent strains of *Bacillus Subtilis*, *Bacillus licheniformis* and *Bacillus pumilis*
- Concentration: 50 billion CfU/gm

Dosage

Nursery:

- Apply 10 gm/MT of Nursery, every day.
- Mix with equal amount of sugar and 10 lit of water, activate for 3 hours and apply evenly throughout the Nursery.



VIBZET

VIBRIO CONTROL IN NURSERY AND HIGH DENSITY FARMING



Benefits

- Nursery vibrio flora contains species both from hatchery and farm
- It is designed specially for controlling vibrio in the nursery phase and high density shrimp farming
- Improves survival
- Healthy juveniles
- Natural alternative to antibiotics

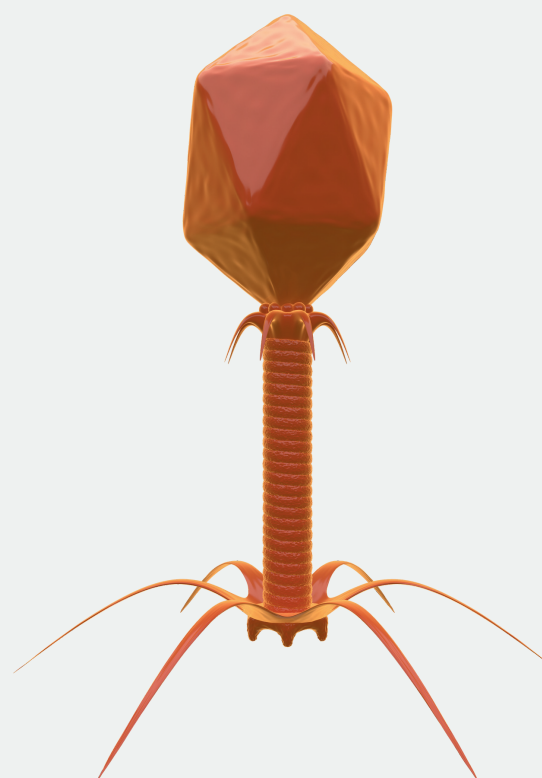


Composition

- Bacteriophages for control of luminescent vibrio
- Bacteriophages for control of pathogenic vibrio

Method of Application

- 1 ppm in the water
- 10 grams per kg of feed , daily twice



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NOVA FISH PRO

PROBIOTIC FOR FISH AND POLYCULTURE



Benefits

- Reduces / Decomposes organic matter
- Improves water quality
- Competes with pathogenic bacteria



Composition

- Bacillus subtilis
- Bacillus polymyxa
- Bacillus licheniformis
- Bacillus megatherium
- Bacillus amyloliquefaciens
- Bacillus coagulans
- Total count 1 Billion spores per gram

Dosage:

- 1 kg per acre



NOVA BILE 45

BILE BOOST FOR SHRIMP HEALTH



Benefits

- Nova Bile Improves feed conversion efficiency, accelerating shrimp growth and aiding in breaking down complex fats from lipid-rich feeds.
- Maximizes digestion efficiency for optimal nutritional benefits and enhances nutrient absorption, including crucial fat-soluble vitamins.
- Regulates energy metabolism, crucial for overall shrimp health and development, and is essential for molting and proper shell formation, contributing to robust growth.
- Maintains digestive harmony with a healthy gut microbiota

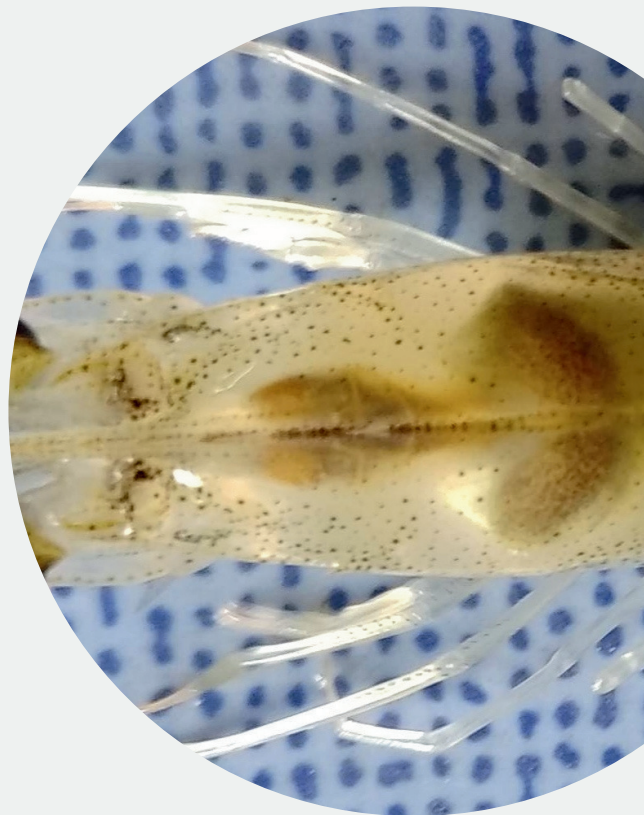


Composition

- Cholic Acid 45%

Dosage:

- 3 grams per kg of feed, one meal per day, 7 to 10 days



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EMERALD

PHYTOBIOTIC FOR WHITE FECES



Benefits

- Effectively controls white feces
- Reduces pathogenic bacteria in the shrimp gut
- Boosts gut health
- Probiotic friendly

Composition

- Essential oils 30%

Dosage:

- 3-5 grams per kg feed



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Vision And Mission

Vision

To become a leading provider of innovative and eco-friendly health care solutions, leveraging the unique benefits of aquaculture to improve human health and the environment

Mission

Our mission is to improve the health and well-being of shrimp and fish, while providing high-quality probiotics and other health care products derived from sustainable aquaculture practices. We are committed to developing innovative and effective solutions that promote the health of aquatic animals and the ecosystems they inhabit, while also meeting the needs of our customers. Through our dedication to quality, sustainability, and collaboration, we aim to become a trusted partner for aquaculture producers and a leading provider of health care products for the aquaculture industry



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