marine
microbiotics



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MARINE PRO

A Premium Probiotics blend to support water quality bio remediation

Marine Pro is a powdered probiotic selection of Bacillus spp. supplemented with yeast ferments. This multi-strain Bacillus spp. mixture will help to enhance the mineralization of the organic matter while competing and suppressing pathogenic bacteria in the water and soil toplayer.

COMPOSITION:

Bacillus licheniformis, Bacillus pumilus, Bacillus subtillus, $1x10^6$cfu/g.

MODE OF ACTION:

Marine Pro supports the organic waste decomposition and degradation, competes with pathogenic bacteria, and in hibit their growth. It will catalyse the activation and growth of probiotic population in the pond water/soil to speed up and stabilize the result.

BENEFITS:

- Breaks down the organic matter and sludge
- Removal of ammonia ($NH4^+$) and other nitrogenous metabolites
- Competes with pathogenic bacteria.
- Reduces disease occurrence
- Improves of water and soil quality
- Improves growth and survival

DOSE APPLICATION:

500g/ha or 200g/acre once a week or up to 3 times a week (depending on pond conditions) or 1-2g/kg feed, with high density and feeding rate, increase the frequency of application or Consult your local technician.

WATER APPLICATION:

Dilute the product into water and spray all over the water surface until evenly distributed with Keep the aeration running.

POND BIOTICS

Effective Probiotic formulation for aqua culture ponds

It is a probiotic formulation designed to maintain the healthy environment in aquaculture pond. It contains natural and highly beneficial microorganisms well suited to the aquatic environment. They are selected based on their superior probiotic features and ability to biodegrade complex organic wastes and removes toxic contaminants from pond water during intensive aquaculture farming.
This product stabilizes water quality, improves pond bottom quality and supports the gut health of fish and shrimp, there by improving performance and efficiency in production.

COMPOSITION/GM:

Bacillus subtilis, Bacillus licheniformis, Bacillus megatherium, Bacillus polymyxa, Bacillus mesentricus, Bacillus amyloliquefaciens, Aspergillus oryzae, Pediococcus acidolactici.

POTENCY: NLT $15x10^9$cfu/gm (15 Billioncfu/gm).

BENEFITS:

- Stabilization of phytoplankton.
- Removes organic load of pond bottom and reduces the pollution of the pond.
- Inhibits Vibrio & other pathogenic bacteria and reduces bacterial toxins in the pond.
- Ensures healthy environment for the Shrimp & Fish by reducing BOD and increasing

DO levels.

- Improves water quality & reduces the frequency of water exchange.
- Reduces the mortality rate of Shrimp & Fish.
- Improves growth and health performance.
- Reduces pond bottom sludge.

Dosage:

Dosage: 500gms per Acre/Weekly once.(Or) as directed by your farm technical consultant.

MODE OF APPLICATION:

Dissolve the required quantity in 50 ltrs of water, mix thoroughly and spread all over the pond.

V-GUARD

For Vibrio control and healthy digestion

V-Guard is a formulated blend of carefully selected and dosed organic acids that retain strong antibacterial properties under the shrimp gut pH conditions while allowing a properly functioning digestion process.

Composition:

Mixture of propionic acid, formic acid and its ammonium salts, potassium sorbate and medium chain fatty acids on mineral carriers.

Mode of action:

At recommended dosage, V-Guard combines bactericidal and bacteriostatic effects on most Vibrio spp. and pathogenic bacteria in the shrimp gut, while causing no harm to the beneficial or probiotic bacteria. V-Guard leaves the shrimp gut pH unaltered and improves nutrient utilization for better growth and feed efficiency.

Benefits:

- Reduces Vibrio spp. infections of the hepatopancreas and gut.
- Promotes beneficial gut bacteria and synergy with probiotics.
- Improves gut health and digestion.
- Improves growth and feed efficiency
- Improves survival under bacterial disease situations

Dose application:

Preventive dose: 2 to 4 g/kg every two meals/day
Curative dose: 5 to 8 g/kg every two meals/day
Or follow your local technician advise and adjust application program according to daily feeding program

Feed application:

Dilute V-Guard into water and spray all over the feed surface until evenly distributed. Add on top pellet binder to minimize product leach-out and dry in 20-30 minutes using room temperature.

V-NIL

Specialized product for control of virus and bacteria in aqua ponds

V-Nil is specially formulated natural product containing nano silver encapsulated in bio-poymer that kills harmful virus and bacteria. It neutralizes harmful pathogens present in the pond ecosystem.

COMPOSITION:

Encapsulated Nano silver 12%

BENEFITS:

Effectively controls Viruses
Controls Vibrio and harmful bacteria
Enhances immunity of shrimps
Non- toxic

DOSAGE:1 Lit per Acre (Once in 15 days).

MODE OF APPLICATION: Mix with pond water and spread over the pond surface.
Turn on the aerators for equal distribution.

H_2S REDUCER

Probiotic for Control of Hydrogen sulfide and bottom Sludge in aqua ponds

H_2S Reducer is a mix of specially selected probiotic strains which aggressively work in water to control toxic metabolites effectively to maintain a stabilized system for Aquaculture. It helps nullify the effect of toxic nutrient load, loading of ammonia and phosphate levels and suppresses the hydrogen sulfide gas production. The specially selected probiotic strains have exceptional capability to remove foul-smelling hydrogen sulfide and degrade organic sulfur compounds.

COMPOSITION:

- Paracoccus pentotrophus
- Pediococcus acidilactici.

POTENCY: 3Billion cfu/gm.

BENEFITS:

- Reduces obnoxious Hydrogen Sulfide effectively.
- Reduces of BOD and COD.
- Improves soil quality.
- Reduces the toxicity of ponds.
- Improves FCR.
- Stabilize pH, helps in balancing ecology in the pond.
- Eliminates malodour in the ponds as well as off-flavour.
- Increase survival rate of shrimps/prawns.
- Improves size of aquatic animal and yield of crop.

DOSAGE:

During Pond preparation: 1Kg per Acre

Prevention:500 gms/Acre every 10 days.
Treatment:1 Kg per Acre for 3 days. (Or) as directed by your farm technical consultant.

MODE OF APPLICATION:

Dissolve the required quantity in 50 ltrs of water, mix thoroughly and spread all over the pond.

MOULTPRO

Effective moulting inducer

Moultpro is a combination of organic chelated minerals with aquatic concentrated calcium and other trace minerals which is easy to absorb by shrimp and induces healthy molting. The amino acid and chelated zinc in Moultpro enhances the growth and immune system, which helps in infection resistance.

COMPOSITION:

Chelated trace minerals of Iron, Zinc, Copper, Manganese, Molybdenum, Boron, Chelated macro minerals of Calcium and Potassium, Vitamins- A, D3, Glycine.

BENEFITS:

- Stimulates moulting in Prawns/shrimps and improves their moulting cycles.
- Shrimp/Prawns absorbs calcium ion form ($ca2^+$) instantly decrease mortality during molting.
- Reduces hard shell instantly during molting.
- Prevents cannibalism.
- Resistant against diseases outbreak.
- Maintains proper GH/KH levels.
- Normalizes the prevents muscle crumples.

DOSAGE:

10 gms per Kg offeed in 1-2 meals (start before 5 days of moulting) or as directed by your farm technical consultant.

MODE OF APPLICATION:

Mix the required quantity of Moultpro in feed with binder and shade dry for 5 minutes before application.

GUTLAC

White feaces & White gut controller

This product is highly effective formulation of specially selected probiotic strains for control of white faeces and white gut problems in shrimp.

BENEFITS:
- Highly effective against white gut and white feaces disease in shrimp.
- Prevents survival loss due to white gut/white feaces disease.
- Improves gut health, increases appetite and improves feeding in ponds.

COMPOSITION:
Probiotics: Lactobacillus spp., Bacillus spp.
Protency: NLT 5 Billioncfu/gm.

DOSAGE:
Regular Use: 3-5 g I kg feed for 5 days (all meals) at fortnightly intervals

TREATMENT /
5-10 g I kg feed for 5 days (all meals) (or) as directed by your farm technical consultant.

MODE OF APPLICATION:
Top coat the required quantity of the product in feed thoroughly along with 30-50 ml of fish oil I rice bran oil and broadcast.

VIBRIO CHECK

Effective probiotic product for vibrio control

Vibrio Check is a unique combination of specially selected Probiotic strains, which are highly effective against vibrio. It inhibits vibrio & other pathogenic bacteria by producing antibiotic like substances-bacteriocins.

COMPOSITION:
Pediococcus acidolactis
Lactobacillus acidophilus
Lactobacillus casei
Bacillus subtilis
Bacillus licheniformis
Bacillus mesentricus
Bacillus polymyxa
Bacillus amyloliquifaciens
Clostridium butyricum
Streptococcus faecium

POTENCY: 30 Billion cfu/gm.

Dosage:
Regular Usage: 500 gms per Acre once in 10 days.
Treatment:1st Dose – 500 gms per Acre. 3rd day – 500 gms per Acre.(Or) as directed by your farm technical consultant.

MODE OF APPLICATION:
Dissolve the required quantity in 50 ltrs of water, mix thoroughly and spread all over the pond.

AMMOBOND

To reduce toxic-ammonia in Aqua ponds

Ammobond is a natural ammonia binder derived from Yucca schidigeraplant, rich glyco-components and saponins. It binds ammonia in the water and neutralizes it.

COMPOSITION:
Ammobondis a dry natural extract from Yucca schidigera plant, rich in glyco-compounds

MODE OF ACTION:
Ammobond components actively bind the un-ionized (free) ammonia and mediate the conversion of ammonia to nitrite and nitrate. It complements water probiotics, which can directly remove ionized ammonia ($Nh4^{+}$) but not gaseous ammonia (NH3).

BENEFITS:
- Reduces toxicity of ammonia
- Reduces gills irritation and other chronic effect after of long-term ammonia exposure
- Supports oxygen absorption by the gills
- Increases feed response and utilization
- Complements water probiotics

DOSE APPLICATION:
1-2g / kg feed or 0.5 kg / ha or 200g / acre in weekly basis for earlier stage (less than DOC 45)
1-2g / kg feed or 0.5 - 1 kg / ha or 0.2-0.4 kg / acre in weekly basis for grow out-stage
The dose will vary following shrimp density and ammonia level in the pond.

WATER APPLICATION:
Dilute product into water with proportion minimum 1:10. Distribute the solution evenly over the pond surface and optimize aeration. Product can dilute in proportion up to 1:50 to maximize product distribution across the pond surface. Recommended under high water pH conditions.

AMMONIFIX

Yucca schidigera Extract along with probiotics for effective conrol of ammonia & Nitrite in aquaculture ponds

Ammonifix is a specially formulated natural product containing extract of Yucca schidigera and specially selected strains of Nitrosomonas and Nitrobacter for excellent control of Ammonia, Urea, nitrite and other toxic components from pond bottom in Aqua culture ponds. It can work effectively in high pH and salinity.

COMPOSITION:
Yucca schidigera extract 40%
Facultative Nitrosomonas & Nitrobacter

POTENCY: 5 Billion cfu/gm.

BENEFITS:
- Reduces & Eliminates nitrogenous harmful compounds like NH3, No2, No3, H2S and phosphate.
- Minimizes sludge formation in ponds.
- Reduces odour.
- Reduces nitrite and nitrate levels.
- Reduces occurrence and control the brown gill and black gill problem in shrimps.
- Improves DO levels.

Dosage:
Regular Usage: 200-300 gms per Acre once every week.
Treatment:500 gms per Acre.(Or) as directed by your farm technical consultant.

MODE OF APPLICATION:
Mix the required quantity of product in water and spread all over the aqua culture ponds.

MICROMINS

Combination of organic chelated minerals

Micromins is unique formulation which provides essential macro and trace minerals in chelated form that are absorbed very well by the digestive system of Shrimp/Prawn.

COMPOSTION/1KG
Amino chelated Zink – 140 gms
Amino chelated Ferrous- 115 gms
Amino chelated copper – 6 gms
Amino chelated Manganese – 40 gms
Amino chelatedCalcium – 300 gms
Amino chelated cobalt – 180 gms
Iodine – 900 mg
Selenium- 38 mg
Chromium- 140 mg
Excipients

BENEFITS:
Helps in better survival rate
Helps in moulting and shell formation
Protects against cramping muscle
Reduce stress from salinity changes
Helps shrimp growth in fresh water
Protects from loose shell syndrome
Provides shell firmness and weight gain

DOSAGE:
5 gms per Kg of feed (Daily through one feed) (or) As advised by Aqua consultant.
MODE OF APPLICATION: Mix the required quantity of Micromins in the feed with binder and shade dry for 5 minutes before application.

AQUAMIN

Multi-mineral supplement for aqua ponds

Aquamin is a complete mineral supplement with Probiotics for optimum production of Prawns, it provides such micronutrients which are favorable to build up the disease resistance and immune response.
Aquamin also provides proper ratio of calcium and phosphorus for the development of perfect endo and exo-skeletal system of Prawns. It provides essential amino acids which helps protein synthesis.

BENFITS:
Restores soil fertility and improves water quality.
Regulate osmoregulation
Prevent loose shell problem
Prevent Body Cramp and White Muscle Disease
Helps to develop immune response and defense mechanism
Provide sufficient nutrients that support the development of plankton
Induce moulting
Maintains pH of pond water.

COMPOSITION/10 KGS
Zinc: 400 gms: Manganese: 550 gms; Copper: 60 gms; Ferrous: 350 gms; Cobalt: 150 gms, Magnesium: 1400 gms; Calcium: 2530 gms; Potassium Iodide: 10 gms Sodium selenite: 10 gms; Chromium chloride: 200 gms; DI-Calcium phosphate: 4300 gms; Probiotic: 100 Billion CFU/MI

DOSAGE: 10 Kg/ Acre (Once in Week)

MODE OF APPLICATION:
Pre dissolve and spread over the pond surface. Turn on the aerators for equal distribution.

GUDGUT PLUS

For comprehensive Vibrio & white feces control and healthy gut

GudGut Plus is a water-dispersible mixture of herbals and natural extracts.Its Quorum Sensing Inhibition Technology (QSI) helps reduce bacterial virulence. Anti-parasitic (EHP) and anti-inflammatory modes of action support shrimp resistance and recovery from disease challenge.

COMPOSITION:

GudGut Plus is composed of a specific blend including natural herbal extracts, yeast extract and Medium Chain Fatty acids.

MODE OF ACTION:

GudGut Plus support a healthy gut microbiota by bacteriostatic and bactericidal action. Its QS reduces pathogenicity and toxicity of bacterial pathogens while enhancing probiotic bacteria growth and gut microbiome diversity. Also, inhibit EHP spore germination and reducesthe negative impact on growth & harvest.

BENEFITS:

- Mitigates impact from diseases like white feces syndrome (EHP, Vibriosis).
- Inhibits EHP spore germination.
- Improves gut health and microbiota for better digestion.
- Improves Survival, FCR and optimize harvest result.

DOSE APPLICATION:

Preventive dose: 2-4g/kg feed, twice a day
Booster dose: 8 g/kg feed, 3 out of 4 meals for 7-14 days application or follow your local technician advise and adjust application program according to daily feeding program.

FEED APPLICATION:

Dilute the product into water and spray all over the feed surface until evenly distributed. Add ontop pellet binder to minimize product leach-out and dry in 20-30 minutes using room.

AQUIZYME

Enzyme growth promotor for aqua culture

It is a protease enzyme complex, which helps in the digestion of Proteins present in the feed for better nutrient availability for shrimps. Shrimp feed has higher protein concentration. For complete digestion of protein content of the feed, dietary enzymes are major alternative to improved protein digestibility and also to reduce organic waste.

COMPOSITION:

Enzyme Complex of Protease-100000 HUT units/gm.

BENEFITS:

Improves FCR
Increases Animal Weight gain
Controls Vibrio in the Shrimp Gut
Enhances Immune systems
Protein content in the fecal matter can be reduces.

DOSAGE:

1-2 gms for Kg of feed

MODE OF APPLICATION:

Mix the required quantity with feed.

DIGENE

Supports digestive organs and moulting process

Digene contains a blend of phospholipids and lysophospholipids which will facilitate the digestion and utilization of essential fat-soluble molecules.

COMPOSITION:

Mixture of hydrolyzed soya lecithin on mineral & vegetal carriers and antioxidants

MODE OF ACTION:

Digene promotes emulsification of essential lipids in a water environment like the gut, and assists the digestion, absorption, and utilization of these lipids. It strengthens the role of cells membranes in immune response and physiological functions in metabolically active organs like the gut, hepatopancreas or gills. It also provides shrimp an extra energy boost that helps in situations of stress caused by high/low salinity or diseases.

BENEFITS:

- Facilitates and accelerates the digestion and absorption of critical essential lipids.
- Supports the functions of the digestive organs impaired by disease or stress(i.e. salinity stress)
- Improves the health of cell membranes in active organs like the hepatopancreas and the gills.
- Supports the moulting process
- Better feed efficiency (FCR)

DOSE APPLICATION:

Regular dose: 2g/kg feed for 1 or 2 meals per day.
Damaged digestive organs (HP, gut): 2 to 4g/kg on alternate meals.

FEED APPLICATION:

Mix Digene with water and spray all over the feed surface until evenly distributed. Add on top pellet binder to minimize product leach-out and dry in 20-30 minutes using room-temperature.

BIO-C

Highly bio available form of vitamin C strong immunity

Bio-C active component is ascorbate monophosphate, a highly bio-available and stable formof Vitamin C, designed to boost dietary Vitamin C levels for situations of increased stress ordisease challenge. It is relatively insoluble in water to minimize leaching while coated onto shrimp feed.

COMPOSITION:

Minimum 35% of vitamin C stabilized under the form of L-ascorbyl-2-mono-phosphate.

MODE OF ACTION:

Bio-C will prevent and counteract this increased oxidative damage and boost the immune response activity of shrimp hemocytes. High levels of Vitamin C will reduce mortality and boost farm performance.

BENEFITS:

- Improves immunity against pathogens.
- Improves resistance to stress. Improves wound repair from pathogens or handling wounds.
- Alleviates symptoms of black gills or black spots.
- Improves survival under challenging conditions.

DOSE APPLICATION:

Regular preventive dose: 2g / kg feed /twice a day or depending on the level of disease pressure and stress such as stocking density or weather changes.

FEED APPLICATION:

Mix Bio-C in a small amount of water and spread all over the feed surface until evenly distributed. Add on top pellet binder to minimize product leach-out and dry in 20-30 minutes using room temperature.

LIVHEALTH

Unique Herbal based Liver Stimulant

Livhealth is a superior quality liver stimulant, digestion enhancer and growth promoter for Shrimp/Prawn/Fish. Livhealth has Natural herbal extracts, Minerals and Vitamins that exert various benefits and responsible for keeping body cells healthy. Livhealth increases the efficiency of utilization of nutrients. It protects the liver from Harmful toxins.

COMPOSITION:

Herbal extracts: Kutki extract, Tulasi extract, Kalmegh extract, Bhumi amla extract Vitamin B1,B2, Niacin, Inositol, Liver extract, Yeast extract.

BENEFITS:

- Improves the hepatopancreas functioning capacity.
- Aids in digestion and helps the body to use vitamin A.
- Helps in body metabolism and neutralize the toxins.
- Helps in prevention of white gut disease.
- Improves FCR.
- Avoids mineral deficiency and white muscle.
- Reduces bad odour from the fecal matter.
- Cleanses gut and reduces constipation.
- Improves the resistance of Prawns / Shrimps.

DOSAGE:

For Shrimp/Prawn: 10-20 grams per kg of feed For Fish: 2-5 gms per Kg of feed (or) as directed by your farm technical consultant.

MODE OF APPLICATION:

Mix the required quantity of Livhealth in feed with binder and shade dry for 5minutes before application.

MINVITZYME

Unique growth promoter for weight gain and immunity

Minvitzyme is a unique combination of Enzymes, Vitamins and Chelated minerals for aqua culture use.

COMPOSITION/GM:

Amylase – 30000 units/gm, Protease – 10000 U, Cellulase – 40000 U, Hemicellulase – 1800 U, Lipase – 1605 U, Betagluconase – 40 U, Vit C – 50gm, Vit B1 – 2mg, Vit B6 – 2mg, Vit E – 1mg, Glycin
Chelated minerals: Essential Macro and trace minerals – 200mg (Ca, P, K, Na, Cl, Mg, S, Zn, Fe, Co, Cu, Mn in chelated form)

BENEFITS:

- Improves feed utilization and enhances FCR.
- Better feed digestion and nutrient absorption.
- Reduces digestive upsets.
- Enhances immune response.
- Reduces disease incidence & mortality.
- Suppress the anti-nutritional factors in feed and increases the nutritive value of the feed.
- Less unconsumable feed leads to less pollution in the pond.
- Amylase hydrolyse starch polysaccharides.
- Protease helps in the availability of low-grade proteins releasing readily digestible peptides and easily absorbed amino acids.
- Hemicellulase degrades various plant fibrous materials and completely hydrolyse cellulose.
- Cellulasehydrolyse cellulose.
- Gluconase digest high molecular weight beta glucans in grain and cereal based aqua feeds.
- B1& B2 vitamins supports liver metabolism.
- Vitamins help for high efficiency moulting frequency and direct absorption after ingestion saves energy.
- Vitamin C is essential in Prawn and Shrimp for disease resistance, rapid growth and high survival.

DOSAGE:

5-10 gms per Kg Feed in 1-2 Meals per day.(Or) as directed by your farm technical consultant.

MODE OF APPLICATION:

Mix the required quantity of Minvitzymein feed along with water and shade dry for 5 minutes before application.