



*Product Catalog*

**Sustainable Solutions for  
Aquatic Life**

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# About Valan

At **Valan Life Sciences**, we are committed to transforming industries through cutting-edge synthetic biology for a healthier, eco-friendly future. We focus on developing innovative microbial solutions for animal healthcare, human health, and natural product applications. We specialize in **designing sustainable, cost-effective probiotics, feed supplements, therapeutic enzymes, and strain-engineered natural products** that improve health and performance of animals and humans.

With well-established in-house platform technologies, a dedicated R&D setup, and advanced manufacturing capabilities, we help partners optimize microbial formulations from concept to commercialization for various applications.

Aqualyfe, the aquaculture brand by Valan Lifesciences, delivers **sustainable, science-backed, and antibiotic-free feed supplements for healthier inland aquaculture.**



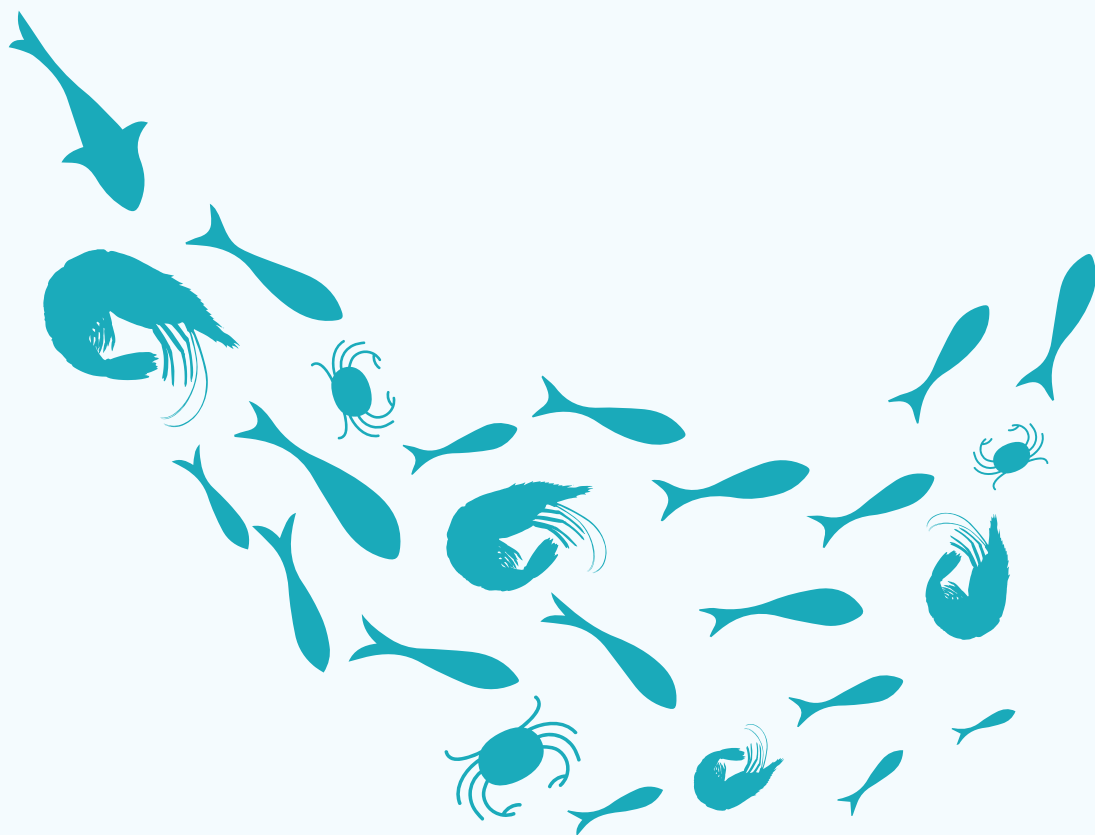
Transforming aquaculture with clean, sustainable and science backed nutrition – for healthier animals and healthier planet



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## *Products for Inland Aquaculture*

### About AquaLyfe

Aqualyfe is the dedicated aquaculture division of **Valan Life Sciences**, committed to advancing inland shrimp and fish farming through clean, sustainable, and science-driven nutrition. We specialize in **antibiotic-free feed supplements formulated with probiotics, prebiotics, multivitamins, and bioactives that enhance growth, boost immunity, and improve water quality—naturally.**

With a focus on long-term pond health and disease prevention, Aqualyfe products support farmers in **producing stronger, healthier aquatic stock** while reducing dependency on harmful chemicals. Every formulation is backed by rigorous research and tailored to meet the evolving needs of modern aquaculture—where productivity, environmental responsibility, and food safety must go hand in hand.

We believe the future of aquaculture lies in clean inputs, healthier ecosystems, and smarter farming practices.

**Join us** in building a more sustainable, profitable, and responsible aquaculture industry—**one pond at a time.**



# MV900

Fortified vitamin-rich antioxidant formula



### Fortified Formula



### Designed for Shrimp Larvae

Supports healthy development and higher survival



### Immunity Booster

Strengthens disease resistance in species like *litopenaeus vannamei* (white leg shrimp)



### Growth Promoter

Improves feed efficiency and on-time larval conversion



### Antioxidant-Rich

Supports collagen formation in Zoea & Mysis stages



### Cell Health Support

Enhances lipotropic activity for stronger membranes

# MV900

Fortified vitamin-rich antioxidant formula

- Vitamins are essential for the health and development of shrimp larvae. Inclusion of vitamins in larval diets can significantly improve growth, immune function and disease resistance.
- Proprietary blend of multi-vitamins and antioxidants developed by us, ultimately helps in increasing the productivity in shrimp farms and to create positive impact on sustainable aquaculture.

**Composition:** Proprietary blend of multi-vitamins and antioxidants

| Ingredients                 | Quantity (w/w) |
|-----------------------------|----------------|
| Vitamin A                   | >600000IU      |
| Vitamin E                   | >2000mg        |
| Vitamin D3                  | >400000IU      |
| Vitamin K                   | >3000mg        |
| Vitamin C                   | >3000mg        |
| Vitamin B1/Thiamine         | >400000IU      |
| Vitamin B2/Riboflavin       | >400000IU      |
| Vitamin B3/Niacin           | >2000mg        |
| Vitamin B5/Pantothenic acid | >1000mg        |
| Vitamin B6/Pyridoxin        | >1000mg        |
| Vitamin B7/Biotin           | >2000mg        |
| Vitamin B9/Folic acid       | >2000mg        |
| Vitamin B12/Cyanocobalamin  | >1000mg        |
| Choline chloride            | >4000mg        |
| Taurine                     | >20mg          |
| Methionine                  | >10000mg       |
| Inositol                    | >6000mg        |
| Lactose                     | >800G          |
| NaH2PO4                     | >200mg         |
| CaH2(PO)4                   | >2100mg        |

### Benefits:

- Maintains and balances proper vitamin-bio availability on larval tanks.
- Helps in on-time conversions with high robustness and better survival.
- Helps in collagen formation in Zoea & Mysis stage.
- Helps in increased lipotropic activity of cell membranes.
- Enhances resistance to pathogenic infections in brood stock, shrimp larvae and boost immunity.

### Recommended Dosage:

- For larvae or brood stock: 5g/kg feed.
- For larval culture tanks: 1 to 2.5 ppm or as advised by an aqua consultant.

### Storage:

- Store in cool and dry place.
- Protect from direct sunlight and moisture.

### Warning:

- Not for human consumption.
- Aquatic animal use only.

**Precautionary Note:** Avoid contact with chemical agents, fertilizers and antibiotics at the time of application.



# Pediocare

Highly potent *Pediococcus* probiotic designed for shrimp hatchery tanks

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## Powerful Probiotic Formula

High CFU *Pediococcus* blend  
(*P. acidilactici* & *P. pentosaceus*)



## Supports Larval Health

Boosts survival rates and  
stress resistance in hatchery  
stages



## Growth Promoter

Supports faster, healthier  
growth in early shrimp  
stages



## Immunity Booster

Strengthens disease resistance  
in species like *Litopenaeus*  
*vannamei* (white leg shrimp)



## Antioxidant Defense

Reduces oxidative stress via free  
radical scavenging

# Pediocare

Highly potent *Pediococcus* probiotic designed for shrimp hatchery tanks

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- *Pediococcus* species, particularly *P. acidilactici* and *P. pentosaceus*, have shown great potential as probiotics in shrimp aquaculture. Their use can lead to improved growth performance, enhanced immune response, better disease resistance, and overall health of cultured shrimp.
- As the aquaculture industry seeks sustainable and environmentally friendly alternatives to antibiotics, these probiotics offer promising solutions for health management in shrimp farming. The effectiveness of *Pediococcus* probiotics in shrimp culture depends on the concentration used.
- Pediocare, developed by us, is a highly potent *Pediococcus* probiotic designed for shrimp hatchery tanks to control pathogenic microbial load and enhance the immunity, growth and survival rate of shrimp larval forms. It also improves stress resistance in shrimp larvae.

## Composition:

Mixture of *P. acidilactici* and *P. pentosaceus* at a concentration of 100B CFU/g, fortified with immunostimulants and antioxidants.

| Ingredients                 | % on Volume |
|-----------------------------|-------------|
| Probiotics                  | 20          |
| Immunostimulants            | 15          |
| Excipients and antioxidants | 65          |

## Benefits:

- Enhances levels of protease, amylase, and trypsin enzymes in larval forms.
- Enhances growth rate.
- Boosts immunity to defend against pathogenic infections.
- Increases free radical scavenging, leading to reduced stress.
- Increases survival rate.

## Recommended Dosage:

- For larvae or broodstock: 5g/kg feed.
- For larval culture tanks: 5 to 10g or as advised by an aqua consultant.

## Storage:

- Store in cool and dry place.
- Protect from direct sunlight and moisture.

## Warning:

- Not for human consumption.
- Aquatic animal use only.

**Precautionary Note:** Avoid contact with chemical agents, fertilizers and antibiotics at the time of application.

# Vibrocure

Effective, antibiotic-free formula for controlling Vibrio species in shrimp hatcheries



### Vibrio Control

Effectively targets and suppresses Vibrio spp. in hatcheries



### Antibiotic-Free Formula

Safe and eco-friendly alternative to chemical treatments



### Immunity Booster

Strengthens disease resistance in species like Litopenaeus vannamei (white leg shrimp)



### Potent Probiotic Blend

Includes high CFU Lactobacillus & Bacillus strains



### Supports Gut Health

Enhances digestion and nutrient absorption in larvae



### Mortality Reduction

Minimizes disease-related losses in hatchery phase

# Vibrocure

Effective, antibiotic-free formula for controlling Vibrio species in shrimp hatcheries

- Vibrio species are a major concern in shrimp hatcheries due to their role as opportunistic pathogens causing vibriosis, a serious bacterial disease that leads to high mortality in shrimp larvae. These bacteria are naturally present in estuarine and marine environments but can become pathogenic under certain conditions, causing significant production losses in shrimp aquaculture.
- To overcome vibrio infections in shrimp hatcheries, we developed a specialised high potent hatchery probiotic formula Vibrocure with proven vibriocidal probiotic microbial consortium fortified with antioxidants and immune stimulants to boost the immunity in addition to control vibrio species in shrimp hatcheries.

## Composition:

Blend of high potent vibriocidal microbes including Lactobacillus species, Bacillus species fortified with phytoconstituents and immunostimulants.

| Ingredients                | % on Volume     |
|----------------------------|-----------------|
| Vibriocidal microbes       | >50 Billion CFU |
| Immunostimulants           | 30              |
| Prebiotics                 | 30              |
| Phytoconstituents          | 10              |
| Excipients & Preservatives | 10              |

## Benefits:

- Controls Vibrio species.
- Reduces in disease-related mortality.
- Improves growth rates and feed conversion efficiency.
- Enhances gut health and nutrient absorption.
- Prevents the emergence of drug-resistant pathogens.
- Eco-friendly alternative to antibiotics.
- These advancements highlight the critical role of Vibrocure in sustainable shrimp aquaculture, offering both economic and environmental benefit.

## Recommended Dosage:

- For larvae or broodstock: 5ml/kg feed.
- For larval culture tanks: 1 to 2.5 ppm or as advised by an aqua consultant.

## Storage:

- Store in cool and dry place.
- Protect from direct sunlight and moisture.

## Warning:

- Not for human consumption.
- Aquatic animal use only.

**Precautionary Note:** Avoid contact with chemical agents, fertilizers and antibiotics at the time of application.

# Selve-ZN

Proprietary blend of selenium and vitamins, fortified with zinc and antioxidants





**Balanced Nutrition**  
Selenium, Vitamin E & Zinc for optimal shrimp health



**Science-Backed Formula**  
Developed with phytoconstituents and immunostimulants



**Immunity Booster**  
Strengthens disease resistance in species like *litopenaeus vannamei* (white leg shrimp)



**Stress Reduction**  
Mitigates oxidative stress from intensive farming conditions



**Growth Promoter**  
Supports collagen formation in Zoea & Mysis stages



**Disease Resistance**  
Enhances resilience to pathogen-related mortality

# Selve-ZN

Proprietary blend of selenium and vitamins, fortified with zinc and antioxidants

- Integration of selenium (especially organic forms), vitamin E, and antioxidants into shrimp diets significantly enhances growth performance, immune function, antioxidant defenses, and resilience against environmental stresses in intensive aquaculture systems. It can also optimize growth performance, health resilience, and sustainability in aquaculture practices.
- Selve-ZN is a proprietary blend of selenium and vitamins, fortified with zinc and antioxidants specially developed by us to reduce the stress-related diseases in Shrimp hatchery and culture tanks.
- Studies indicate that dietary supplementation of Selve-ZN improves shrimp growth rates, Feed Conversion Ratio (FCR), and survival rates, while enhancing immune responses through increased hemocyte counts and phenoloxidase activity. It also helps mitigate oxidative stress and supports overall health under intensive farming conditions.

## Composition:

Blend of Selinium, Vitamin-E, Antioxidants fortified with phytoconstituents and immunostimulants.

| Ingredients                     | % on Volume |
|---------------------------------|-------------|
| Selenium salt                   | 10          |
| Antioxidants                    | 25          |
| Excipients and Immunostimulants | 65          |

## Benefits:

- Enhances growth rate: Selve-ZN contributes to improved weight gain and feed efficiency:
- Enhances immune system function: Selenium and zinc boost immune-related enzymes, while vitamin E enhances disease resistance.
- Reduces Stress: Selve-ZN mitigates Reactive Oxygen Species (ROS) -induced stress. Vitamin E protects cellular membranes, and zinc aids recovery under high-density conditions.
- Reduces Mortality rates: Supplementation with Selve-ZN significantly reduces mortality during pathogen challenges.

## Recommended Dosage:

- For larvae or broodstock: 5g/kg Feed.
- For larval culture tanks: 5 to 10g or as advised by an aqua consultant.

## Storage:

- Store in cool and dry place.
- Protect from direct sunlight and moisture.

## Warning:

- Not for human consumption.
- Aquatic animal use only.

**Precautionary Note:** Avoid contact with chemical agents, fertilizers and antibiotics at the time of application.




# Val-omix


Specialized vitamin formula fortified with postbiotics for shrimp culture



  
**Liver Health Support**  
Enhances hepatopancreas and metabolism

  
**Vitamin Enrichment**  
Boosts growth and vitality

  
**Immunity Booster**  
Strengthens disease resistance in species like *litopenaeus vannamei* (white leg shrimp)

  
**Metabolic Boost**  
Supports core biological functions

  
**Proper mineral management**  
Mineral management enhances shrimp production and health in aquaculture systems

  
**Shell & Tissue Strength**  
Aids moulting and repair

# Val-omix

Specialized vitamin formula fortified with postbiotics for shrimp culture

- Vitamins, antioxidants and amino acids play crucial and complementary roles in shrimp culture, supporting growth, metabolism, immunity, stress resilience and overall health.
- Val-omix is a specialized vitamins, aminoacids and postbiotics formula designed by us, to integrate with shrimp culture that supports hepatopancreas function, enhances immunity, improves growth, and contributes to overall shrimp health and productivity when used at recommended dosages. It also used to enhance liver metabolism in fish.

## Composition:

| Ingredients         | Description   |
|---------------------|---|
| Herbal Antioxidants | Pre-validated phytoconstituents with known antiviral properties                               |
| Immunoglobulins     | Antibodies developed specifically against <b>WSSV</b> , <b>YHV</b> , and other viral antigens |
| Excipients          | Proprietary base for stability and delivery   |

## Benefits:

Use of Val-omix in shrimp culture ponds can address multiple benefits in shrimp aquaculture:

- Promotes optimal growth, development, and survival.
- Enhances immune function and disease resistance.
- Supports metabolic processes and stress resilience.
- Improves feed efficiency and reduce deformities.
- Strengthens shell formation and tissue repair.

## Recommended Dosage:

- For larvae or broodstock: 500g/ton feed.
- For larval culture tanks: 1 to 2 kg or as advised by an aqua consultant.

## Storage:

- Store in cool and dry place.
- Protect from direct sunlight and moisture.

## Warning:

- Not for human consumption
- Aquatic animal use only

**Precautionary Note:** Avoid contact with chemical agents, fertilizers and antibiotics at the time of application.



# Lorzyn

Specialized Probiotics, Prebiotics, and Postbiotics formula for shrimp culture

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## 3-in-1 Formula

Combines nanoherbals, probiotics & enzymes



## Gut Microbiome Modulation

Supports healthy digestion and nutrient uptake



## Immunity Booster

Strengthens disease resistance in species like *litopenaeus vannamei* (white leg shrimp)



## Metabolic Boost

Enhances shrimp vitality and stress resilience



## Growth Promoter

Encourages better weight gain and feed efficiency



## Eco-Friendly Aquaculture

Promotes a healthy pond microbiome and better water quality

# Lorzyn

Specialized Probiotics, Prebiotics, and Postbiotics formula for shrimp culture

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- Probiotics, Prebiotics, and Postbiotics play distinct yet complementary roles in shrimp aquaculture, enhancing health, growth, and environmental sustainability.
- By integrating these components, shrimp farming achieves higher productivity, reduced antibiotic reliance, and improved ecosystem health.
- Lorzyn is a specialized Probiotics, Prebiotics and Postbiotics formula designed by us, to integrate with shrimp culture that supports shrimp metabolic function, digestive health, immunity and pathogenic resistance as well as growth improvement. It also contributes to overall shrimp health and productivity when used at recommended dosages.

## Composition:

Lorzyn is proprietary blend of specialized probiotics, prebiotics and postbiotics,

| Ingredients                | % on Volume |
|----------------------------|-------------|
| Probiotics                 | 15          |
| Prebiotics and postbiotics | 25          |
| Excipients                 | 60          |

## Benefits:

Use of Lorzyn in shrimp culture ponds offers multiple benefits in shrimp aquaculture:

- Enhances gut microbiome modulation.
- Improves immunity and gut barrier function.
- Increases pathogen resistance.
- Better water quality.
- Improves growth performance.
- Strong microbiome support in the pond eco-system.
- Enhances metabolic activity and stress resilience.

## Recommended Dosage:

- For larvae or broodstock: 500g/ton feed.
- For larval culture tanks: 1 to 2kg or as advised by an aqua consultant.

## Storage:

- Store in cool and dry place.
- Protect from direct sunlight and moisture.

## Warning:

- Not for human consumption.
- Aquatic animal use only.

**Precautionary Note:** Avoid contact with chemical agents, fertilizers and antibiotics at the time of application.

# Gutprotec

Proprietary blend of Probiotics, Prebiotics, and Organic acids formulated to treat white-gut and white fecal disease in shrimp



### White Gut Treatment



### Probiotic-Powered Formula

Supports healthy development and higher survival



### Immunity Booster

Strengthens disease resistance in species like *litopenaeus vannamei* (white leg shrimp)



### Improves Feed Utilization

Improves feed efficiency and on-time larval conversion



### Growth Promoter

Supports collagen formation in Zoea & Mysis stages



### Pond Health Maintenance

Enhances lipotropic activity for stronger membranes

# Gutprotec

Proprietary blend of Probiotics, Prebiotics, and Organic acids formulated to treat white-gut and white fecal disease in shrimp

- White gut disease, also known as White Feces Syndrome (WFS), is a condition in shrimp farming characterized by the excretion of whitish or opaque fecal matter. It is often associated with gut microbiota imbalances and infections by pathogens such as *Vibrio* species.
- Probiotics have emerged as effective tools to prevent and manage this condition due to their ability to restore gut health, enhance immunity, and suppress pathogenic bacteria.
- We have developed a unique formula by blending specific ratios of probiotics, prebiotics, and organic acids to provide swift action against white gut infections and to prevent the infection in shrimp culture or larval ponds.
- Gutprotec restores gut microbiota balance, enhances immunity, suppresses pathogens, and contributes to sustainable aquaculture practices while improving shrimp health and productivity.

### Composition:

| Ingredients   | % on Volume |
|---------------|-------------|
| Probiotics    | 50          |
| Organic acids | 20          |
| Prebiotics    | 15          |
| Antioxidants  | 5           |
| Excipients    | 10          |
| Preservatives | 0.2         |

### Benefits:

- Helps in controlling the white gut and white fecal disease.
- Maintains healthy gut microbiome.
- Helps in efficient utilization of feed and improves FCR.
- Enhances immune system function and increases pathogens resistance.
- Helps in growth rate.
- Maintains healthy pond environment.

### Recommended Dosage:

- For larvae or broodstock: 5ml/kg Feed.
- For larval culture tanks: 1 to 2.5 ppm or as advised by an aqua consultant.

### Storage:

- Store in cool and dry place.
- Protect from direct sunlight and moisture.

### Warning:

- Not for human consumption.
- Aquatic animal use only.

**Precautionary Note:** Avoid contact with chemical agents, fertilizers and antibiotics at the time of application.

# Vibrocure-max

Effective antibiotic-free formula for controlling Vibrio species in shrimp culture



### Vibrio Control

Effectively targets and suppresses Vibrio spp. in hatcheries



### Potent Probiotic Blend

Includes high CFU Lactobacillus & Bacillus strains



### Antibiotic-Free Formula

Safe and eco-friendly alternative to chemical treatments



### Supports Gut Health

Enhances digestion and nutrient absorption in larvae



### Immunity Booster

Strengthens disease resistance in species like Litopenaeus vannamei (white leg shrimp)



### Mortality Reduction

Minimizes disease-related losses in hatchery phase

# Vibrocure-max

Effective antibiotic-free formula for controlling Vibrio species in shrimp culture

- Vibrio species are a major concern in shrimp hatcheries due to their role as opportunistic pathogens causing vibriosis, a serious bacterial disease that leads to high mortality in shrimp larvae. These bacteria are naturally present in estuarine and marine environments but can become pathogenic under certain conditions, causing significant production losses in shrimp aquaculture.
- To overcome vibrio infections in shrimp hatcheries or culture, we developed a specialised high potent probiotic formula Vibrocure-max with proven vibriocidal probiotic microbial consortium fortified with antioxidants and immune stimulants to boost the immunity in addition to control vibrio species in shrimp hatcheries and cultures.

## Composition:

Blend of high potent vibriocidal microbes including Lactobacillus species, Bacillus species fortified with phytoconstituents and immunostimulants.

| Ingredients                | % on Volume |
|----------------------------|-------------|
| Vibriocidal microbes       | >109 CFU    |
| Immunostimulants           | 15          |
| Prebiotics                 | 10          |
| Phytoconstituents          | 5           |
| Excipients & Preservatives | 50          |

## Benefits:

- Controls Vibrio species.
- Reduces in disease-related mortality.
- Improves growth rates and feed conversion efficiency.
- Enhances gut health and nutrient absorption.
- Prevents the emergence of drug-resistant pathogens.
- Eco-friendly alternative to antibiotics.
- These advancements highlight the critical role of Vibrocure-max in sustainable shrimp aquaculture, offering both economic and environmental benefit.

## Recommended Dosage:

- For larval culture tanks: 1 to 2.5 ppm or as advised by an aqua consultant

## Storage:

- Store in cool and dry place.
- Protect from direct sunlight and moisture.

## Warning:

- Not for human consumption.
- Aquatic animal use only.

**Precautionary Note:** Avoid contact with chemical agents, fertilizers and antibiotics at the time of application.



# Lorvimax

Unique herbal-immunoglobulin formulation for shrimp viral disease management



### Viral Disease Defense

Targets WSSV, YHV, and other viral infections



### Herbal Antioxidants

Supports antiviral activity and immune stimulation



### Immunity Booster

Strengthens disease resistance in species like *litopenaeus vannamei* (white leg shrimp)



### Shrimp Health Improvement

Promotes better moulting and stress tolerance



### Preventive + Curative

Can be used both before and during viral outbreaks



### Eco-Friendly Support

Natural alternative to chemical disease control

# Lorvimax

Unique herbal-immunoglobulin formulation for shrimp viral disease management

- Shrimp viral diseases like White Spot Syndrome Virus (WSSV) and Yellow Head Virus (YHV) cause unpredictable, high mortality in a short time, leading to significant economic losses in aquaculture. Despite the industry's growth, no consistent antiviral control measures have been made available—until now.
- Lorvimax is a research-based, proprietary formulation developed by us. It integrates pre-validated herbal antioxidants with targeted immunoglobulins (antibodies) to help shrimp resist viral infections. This innovative blend is designed for both preventive and curative use in shrimp hatcheries and culture ponds, contributing to better health, improved moulting, and reduced mortality.

## Composition:

| Ingredients         | Description   |
|---------------------|---|
| Herbal Antioxidants | Pre-validated phytoconstituents with known antiviral properties               |
| Immunoglobulins     | Antibodies developed specifically against WSSV, YHV, and other viral antigens |
| Excipients          | Proprietary base for stability and delivery                                   |

## Benefits:

- Controls viral diseases (WSSV, YHV) when used preventively or during outbreak.
- Improves overall health and moulting in shrimp.
- Increases viral resistance and stress tolerance.
- Reduces mortality rates.
- Decreases proliferation of pathogenic microbes.
- Enhances immune response and pond productivity.

## Recommended Dosage:

- For larvae or broodstock: 500g/ton feed.
- For larval culture tanks: 0.5 or 1kg/acre or as advised by an aqua consultant.

## Storage:

- Store in cool and dry place.
- Protect from direct sunlight and moisture.

## Warning:

- Not for human consumption.
- Aquatic animal use only.

**Precautionary Note:** Avoid contact with chemical agents, fertilizers and antibiotics at the time of application.

# Nanomix

Integration of probiotics and enzymes with nanoherbals and nanotechnology

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## Fortified Formula



## Proper mineral management

Mineral management enhances shrimp production and health in aquaculture systems



## Immunity Booster

Strengthens disease resistance in species like *Litopenaeus vannamei* (white leg shrimp)



## Mortality reduction



## Better osmoregulation

Better osmoregulation and internal ionic balances, reducing stress



## Better growth rate

Improves growth rate, survival and Feed conversion rate

# Nanomix

Integration of probiotics and enzymes with nanoherbals and nanotechnology

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- Nanoherbals and nanotechnology coupled with probiotics and enzymes have emerged as innovative solutions in shrimp aquaculture, offering advancements in disease management, water quality, feed efficiency and overall shrimp health.
- Nanomix developed by us is a integration of probiotics and enzymes with nanoherbals & nanotechnology represent a transformative approach to enhancing productivity and sustainability in shrimp aquaculture. Integration of Nanomix into farming practices proven that, significant improvement of shrimp farming outcome for both farmers and the environment.

## Composition:

Nanomix is proprietary blend of probiotics and enzymes with Phytoconstituents & nanomaterials (food grade).

| Ingredients                  | % on Volume |
|------------------------------|-------------|
| Probiotics                   | 10          |
| Phytoconstituents            | 25          |
| Excipients and nanomaterials | 65          |

## Benefits:

The combination of nanoherbals, probiotics, and nanomaterials can address multiple challenges in shrimp aquaculture,

- Improves disease resistance through enhanced immunity.
- Better feed utilization for enhanced growth rate.
- Reduces pathogen load.
- Improves water quality.
- Reduces environmental impact via sustainable practices.

## Recommended Dosage:

- For larvae or broodstock: 5ml/kg feed.
- For larval culture tanks: 5 to 10ppm or as advised by an aqua consultant.

## Storage:

- Store in cool and dry place.
- Protect from direct sunlight and moisture.

## Warning:

- Not for human consumption.
- Aquatic animal use only.

**Precautionary Note:** Avoid contact with chemical agents, fertilizers and antibiotics at the time of application.

# Minlor-forte

Specialized mineral-reducing formula for shrimp culture



### Fortified Formula



### Proper mineral management

Mineral management enhances shrimp production and health in aquaculture systems



### Immunity Booster

Strengthens disease resistance in species like *litopenaeus vannamei* (white leg shrimp)



### Mortality reduction



### Better osmoregulation

Better osmoregulation and internal ionic balances, reducing stress



### Better growth rate

Improves growth rate, survival and Feed conversion rate

# Minlor-forte

Specialized mineral-reducing formula for shrimp culture

- Mineral supplementation in shrimp culture involves maintaining proper mineral ratios in water and/or feed to support shrimp physiological needs, especially under low saline conditions. Both water treatment and dietary fortification are practiced, with water supplementation generally more effective. Key minerals include calcium, magnesium, potassium, sodium, and phosphorus, which are essential for growth, molting, osmoregulation, and survival. Proper mineral management enhances shrimp production and health in aquaculture systems.
- A deficiency or reduction in essential minerals in shrimp culture systems has significant adverse effects on shrimp health, growth, survival, and overall pond ecosystem stability. This is particularly critical for species like *litopenaeus vannamei* (white-leg shrimp), which rely on both dietary and waterborne minerals for physiological processes.
- To overcome mineral deficiency in shrimp culture systems has developed Minlor-forte a specialised reducing glycinated mineral formula fortified with postbiotics.

## Composition:

Minlor-forte is a proprietary blend of reducing minerals fortified with antioxidants.

| Ingredients                  | % on Volume |
|------------------------------|-------------|
| Reduced glycinated minerals  | 20          |
| Antioxidants and postbiotics | 20          |
| Excipients                   | 60          |

## Benefits:

- Use of Minlor-forte in shrimp culture ponds can address multiple benefits in shrimp aquaculture:
- Improves growth rates, survival, and Feed Conversion Rate (FCR).
  - Enhances molting and shell formation due to adequate calcium and magnesium.
  - Better osmoregulation and internal ionic balance, reducing stress.
  - Increases color intensity and overall shrimp quality.

## Recommended Dosage:

- For larvae or broodstock: 500ml/ton feed.
- For larval culture tanks: 1 to 2L or as advised by an aqua consultant.

## Storage:

- Store in cool and dry place.
- Protect from direct sunlight and moisture.

## Warning:

- Not for human consumption.
- Aquatic animal use only.

**Precautionary Note:** Avoid contact with chemical agents, fertilizers and antibiotics at the time of application.



# Lorgel

Specialized probiotic gel formula for shrimp culture

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## Probiotic Gel Formula

Designed for optimal nutrient delivery and stability



## Strong Feed Binding

Maintains feed integrity and improves delivery to shrimp



## Palatability Improvement

Increases feed acceptance and consumption



## Locks in Nutrients

Minimizes leaching and preserves feed quality



## FCR Booster

Supports efficient growth and nutrient use



## Eco-Friendly Feeding

Reduces environmental waste and supports clean water

# Lorgel

Specialized probiotic gel formula for shrimp culture

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- Feed gels are emerging as innovative solutions in shrimp culture, offering improved nutrient delivery and reduced environmental impact. These gels are designed to minimize nutrient leaching while enhancing feed stability and palatability.
- Probiotic-enriched gels for shrimp culture serve not only as a feed binders and delivery systems, but also enhances disease resistance, growth performance, and water quality.
- Lorgel is a specialized Probiotics and feed gel formula designed by us, to integrate with shrimp culture that supports enhanced feed binding and uniform nutritional integrity with enhanced delivery into shrimp culture systems.

## Composition:

Lorgel is proprietary blend of specialized probiotics, and gelling agents.

| Ingredients                | % on Volume |
|----------------------------|-------------|
| Gelling agents             | 10          |
| Prebiotics and Postbiotics | >5%         |
| Excipients                 | <85         |

## Benefits:

Use of Lorgel in shrimp culture ponds can address multiple benefits in shrimp aquaculture:

- Enhances Nutrient retention, Feed structural integrity, Palatability, Feed delivery, FCR rates

## Pack Size:

- 5Kg HDPE can and custom packs can be made available.

## Storage:

- Store in cool and dry place.
- Protect from direct sunlight and moisture.

## Recommended Dosage:

- For larvae or broodstock: 10-20g/kg feed.

## Warning:

- Not for human consumption.
- Aquatic animal use only.

Growth Promoters

**Precautionary Note:** Avoid contact with chemical agents, fertilizers and antibiotics at the time of application.

Effective enzyme and antioxidant formula for aquaculture applications



### Enzyme-Based Formula

Optimizes digestion and feed utilization



### Postbiotic Support

Enhances gut health and immune modulation



### Immunity Booster

Strengthens disease resistance in species like *litopenaeus vannamei* (white leg shrimp)



### Plant-Protein Friendly

Enables higher use of plant-based proteins



### Growth Promoter

Improves body weight, weight gain & SGR



### Better osmoregulation

Better osmoregulation and internal ionic balances , reducing stress

Effective enzyme and antioxidant formula for aquaculture applications

- Enzymes are natural catalysts found in the gut or produced biologically. The use of multi-enzyme mixtures in shrimp culture, particularly for species like shrimp, has shown significant positive impacts on growth performance, feed efficiency, digestive capacity, and water quality in aquaculture systems.
- Valzyn is a specialty formula developed by us, featuring a rational blend of enzymes and postbiotics to meet the digestive requirements of shrimp culture ponds.
- Supplementing with Valzyn improves growth metrics, including final body weight, weight gain, and specific growth rate.

## Composition:

Valzyn is proprietary blend of probiotics and enzymes with Phytoconstituents & nanomaterials (food grade).

| Ingredients | % on Volume |
|-------------|-------------|
| Enzymes     | 20          |
| Postbiotics | 15          |
| Excipients  | 65          |

## Benefits:

- Use of valzyn in shrimp culture ponds can address multiple benefits in shrimp aquaculture:
- Improves shrimp growth performance and feed conversion efficiency.
- Enhances digestive enzyme activity, increasing nutrient digestibility.
- Supports higher inclusion of plant-based proteins, reducing reliance on fishmeal.
- Promotes better shrimp survival and immune response.
- Reduces nitrogenous waste and improve water quality, aiding sustainability.

## Recommended Dosage:

- For larvae or broodstock: 100gm/ton feed.
- For larval culture tanks: 200g or as advised by an aqua consultant.

## Storage:

- Store in cool and dry place.
- Protect from direct sunlight and moisture.

## Warning:

- Not for human consumption.
- Aquatic animal use only.

**Precautionary Note:** Avoid contact with chemical agents, fertilizers and antibiotics at the time of application.

# Clearpond

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Specialized enzyme and microbial consortia for shrimp culture



## Microbial Consortium Formula

Accelerates organic matter degradation



## Enzyme-Driven Action

Supports efficient nutrient cycling and waste reduction



## Eco-Friendly Pond Management

Reduces odor and sludge buildup



## Better osmoregulation

Better osmoregulation and internal ionic balances, reducing stress

# Clearpond

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Specialized enzyme and microbial consortia for shrimp culture

- Effective pond cleaning and maintenance of water quality is a critical step in shrimp farming to ensure a healthy environment and maximize productivity. The cleaning process typically involves the removal of accumulated organic and inorganic waste, excess nutrients, and potential pathogens from previous culture cycles. Enzymes and microbes play critical roles in maintaining water quality and optimizing shrimp culture systems.
- Clearpond is specialised bio-product developed by us with a blend of microbial consortia and sludge degrading enzymes. Integrating clearpond into shrimp culture accelerate organic matter breakdown, improve water quality, control disease, and boost shrimp growth and yield. Also, this integrated approach leads to healthier ponds, better shrimp performance, and higher profitability.

## Composition:

Clearpond is a blend of microbial consortia and sludge degrading enzymes.

| Ingredients          | % on Volume |
|----------------------|-------------|
| Microbial consortium | >10         |
| Enzymes              | >10         |
| Excipients           | <20         |

## Benefits:

Use of Clearpond in shrimp culture ponds can address multiple benefits in shrimp aquaculture:

- Improves water quality.
- Nutrient cycling.
- Odor/sludge reduction.
- Improves disease control.
- Increases productivity.

## Pack Size:

- 5kg HDPE can and custom packs can be made available.

## Recommended Dosage:

- For larvae or broodstock: 1-2L/acre feed.
- Larval tanks: 500ml/tank or as recommended by an aqua technician.

## Storage:

- Store in cool and dry place.
- Protect from direct sunlight and moisture.

## Warning:

- Not for human consumption.
- Aquatic animal use only.

**Precautionary Note:** Avoid contact with chemical agents, fertilizers and antibiotics at the time of application.



# Pondexpert

Microbial solution for water and soil health in fish and shrimp



### Fortified Formula



### Proper mineral management

Mineral management enhances shrimp production and health in aquaculture systems



### Immunity Booster

Strengthens disease resistance in species like *litopenaeus vannamei* (white leg shrimp)



### Mortality reduction



### Better osmoregulation

Better osmoregulation and internal ionic balances, reducing stress



### Better growth rate

Improves growth rate, survival and Feed conversion rate

# Pondexpert

Microbial solution for water and soil health in fish and shrimp

- Pondexpert is a specialized microbial solution developed for fish and prawn culture systems to improve water and soil quality, support pond ecosystem stability, and enhance fish health. The product contains a synergistic microbial consortia that facilitates nitrification and de-nitrification, helping convert toxic ammonia into non-toxic nitrogen compounds.
- This formulation produces a variety of antimicrobial compounds, suppressing aquatic pathogens and reducing toxin levels. Designed for versatile pond environments, it functions efficiently across a wide range of salinity (0–50 ppt) and pH (4.5–9.5), making it suitable for various aquaculture systems.

### Composition:

| Ingredients         | Description   |
|---------------------|---|
| Microbial Consortia | Includes <i>Bacillus</i> spp. and other enzyme-producing microbes |
| Concentration       | 15 Billion CFU/ml or gram   |
| Formulation Type    | Proprietary blend of multi-waste digesting microbes               |

### Benefits:

- Reduces ammonia and toxic gases ( $H_2S$ ,  $NO_2$ ).
- Improves dissolved oxygen (DO) levels.
- Maintains water pH, color, and alkalinity.
- Produces antimicrobial compounds that control aquatic pathogens.
- Supports nitrification & denitrification processes.
- Ensures a healthy, stable pond ecosystem.
- Works across a wide range of salinity and pH conditions.

### Recommended Dosage:

- For shrimp culture: 100–250ml/acre (liquid) or 1kg/acre (powder).
- For fish culture: 250–500ml/acre (liquid) or 1–2kg/acre (powder).

### Storage:

- Store in cool and dry place.
- Protect from direct sunlight and moisture.

### Warning:

- Not for human consumption.
- Aquatic animal use only.

**Precautionary Note:** Avoid contact with chemical agents, fertilizers and antibiotics at the time of application.