



SCAN FOR WEBSITE

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POWERED BY BIOTECH

SUSTAINED BY NATURE

PROVEN IN THE FIELD

FEEDING THE FUTURE.

Accelerating Global Shrimp Health and Performance Sustainably, Safely, and Biologically with Smarter and Cleaner Feed-Based Disease & Growth solutions.

Shrimp Farming feeds the world

Shrimp aquaculture is a \$75 billion global industry—contributing significantly to global nutrition, supplying the protein that billions rely on and supporting millions of livelihoods.

However, losses from disease alone cost the industry \$6-\$20 billion annually.

70%



Of the world relies on animal proteins, of which 33% rely on Aqua proteins.



61.2%

of global shrimp now comes from aquaculture.

Over 40%

of global shrimp farming capacity is at constant risk due to emerging pathogens.

Even the best farms lose 60-100% of production to disease in 3 to 10 days.



PREVENTIVE COVERAGE GAP

<1% vaccine coverage

Traditional vaccines rely on adaptive immunity—the ability to “remember” a disease. Shrimp don’t have it—no B-cells, no T-cells, no long-term memory like fish or livestock.

This makes them vulnerable during



MOLTING PHASE

ENVIRONMENTAL STRESS

HIGH STOCK DENSITY

EARLY PATHOGEN EXPOSURE

REACTIVE TREATMENTS FAIL

Antibiotic use = rising AMR risk & export bans, does not address viral threats

Poor Health = stressed shrimps, more feed, less weight, higher FCR, lost harvests, Poorer margins.

The question isn't “how do we grow more shrimp?”
It's “how do we lose less shrimp?”

Across farming, a massive share of what we grow is lost to disease, inefficiency, and late action. In shrimp, that loss is amplified—because Pathogens move fast. The immune system has no memory. The window to respond is short.

An aerial photograph of a large-scale shrimp farming operation, showing numerous rectangular and circular ponds separated by earthen levees. A semi-transparent world map is overlaid on the image, centered behind the text. Two vertical white lines extend from the text above and below the central text block.

**THIS ISN'T A PRODUCTION GAP.
IT IS A PROTECTION GAP.**



And closing it requires a completely different approach—one built for shrimp biology from the ground up.



What If Shrimp Could Be Protected Better ?

Over millions of years, shrimp evolved robust innate immune machinery—fast, built-in defenses that recognise patterns, release antimicrobial peptides, and deploy hemocytes to fight back. These systems fade and reset on their own—and dip further under stress.

Shrimp can't "remember" diseases the way vertebrates do. But with the right biological signals, invertebrate immunity can be primed to respond faster, stronger & smarter.

Inspired By Bees

Scientists discovered something revolutionary: Honeybees and other insects have shown that invertebrates can develop memory-like protection using natural molecular cues and epigenetic "reminders." Colonies become better at handling threats across time—without antibodies, without classic vaccines.

If bees can be trained to defend better, why not shrimp?

This is the heart of our thinking.

Instead of forcing vertebrate medicine onto shrimp, work with what their biology already does well — Prime innate defenses, support them through stress windows, and give farms tools for both readiness and early intervention.

A biology-first approach to shrimp protection.

Powered by SOLAQ.



In shrimp, timing is everything.

Immunity resets fast, while farm stressors and diseases move faster.

SOLAQ™ uses Nobel Prize-winning breakthroughs in protein modelling and RNA biology to create precise, natural, oral biologics— built for how shrimp actually live, grow, and respond.

Delivered through feed, they act as immune primers or early-phase regulators— supporting shrimp health at the right time, with the right signal, No injections. No stress. No residues.

PRECISION DESIGN

CLEAN MANUFACTURING

FARM-READY STABILITY



Proven & Tested

Tested in Independent, double-blind lab studies & Real-farm trials across multiple geographies. Trial Report Available upon request



Precision Design

Our bioinformatics engine scans host and pathogen genomes to identify molecular “switches” that control immunity and growth—enabling fast, precise design of peptide, protein, or RNA-based biologics using advanced synthetic biology.

This allows targeting only intended pathway, immune activation, replication interference, or growth optimisation with high specificity while protecting the microbiome.



Sustainable Manufacturing

We use Precision Fermentation where food-grade microbes act as “tiny factories” to brew our biologics. It is 100% natural, renewable with zero toxic byproducts.

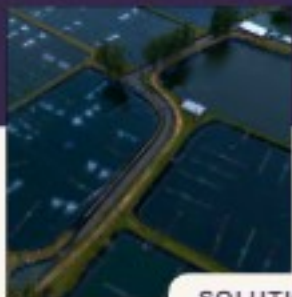


Farm-ready stability

Each biologic is micro-coated to survive transport, storage, and digestion—spray-coated onto regular feed with a natural binder for consistent dosing, no texture change, and targeted release. Shelf-stable. No cold chain.



For farmers, it means immediate adoption, no workflow change, and stress-free delivery.



SOLUTIONS FOR SHRIMP AQUACULTURE

Shrimp outbreaks don't wait. So SOLAQ biologics for Shrimp disease and health management are designed to support farms in two moments that matter most: **before risk rises** and when **pathogen pressure begins**.



ShrimpGuard™

Proactive Protective Shield

Broad-spectrum immune-boosting biologic that continuously primes and sustains immune readiness and improves shrimp health.

**Use it to stay ready
before disease strikes**



ShrimpTrident

Active Targeted Intervention

Pathogen-specific biologic that rapidly reduces pathogen load, improves immunity and health at early detection — Intervene. Reduce. Stabilise.

**Deploy it to respond fast
on early detection**

Higher survival

Stronger Shrimps

Lower Outbreaks

Better Yield

Higher Margins



PROACTIVE IMMUNE READINESS

keeping defenses trained and alert

RAPID TARGETED INTERVENTION

acting fast when pathogens are detected



Together, ShrimpGuard™ and ShrimpTrident™ form the first complete, **feed-based immune management system** designed specifically for shrimp biology — Prevent what you can. Respond when you must. Optimize continuously. All through feed.

Good for Animals, Farmers, Consumers, and the Planet.



HOW TO APPLY OUR PRODUCTS



01
Calculate ShrimpGuard™
or ShrimpTrident dose
based on feed weight.



02
Mix ShrimpGuard™ or
ShrimpTrident with a binder
thoroughly for few minutes.



03
Spray top-coat on regular
shrimp feed. Let it dry.



04
Feed as usual based on
ShrimpGuard™ or Shrimp
Trident program and watch
your stock thrive.



Oral Feed-based
format, Works
across farm stages.



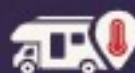
HACCP, ISO and
GMP Certified



Antibiotic, Residue
and Chemical free



100% Natural and
Biodegradable



Room-Temp Stable.
No Cold chain



Scientifically proven,
safe, and effective
across 10+ Trials



Adaptable &
scalable. No infra-
structure needed



ShrimpGuard™

Broad-Spectrum Proactive Protection

ShrimpGuard™ is a first-of-its-kind, feed-based multi-peptide biologic that primes shrimp's innate immunity ahead of risk—to build broad-spectrum resilience against viral and bacterial challenges while keeping immunity stable through stress windows.



Help shrimp recognise pathogens faster when they strike



Help shrimp mount stronger and rapid defensive responses



Proactively builds resilience before outbreaks & maintains health + stable growth.



Higher survival in stress windows, Reduces outbreak probability & spread.

HOW ShrimpGuard™ WORKS



1

Sense & Prime

Feed-delivered bioactive compounds in ShrimpGuard™ nudge pattern-recognition systems (TLR/lectins)—shrimp “notices” pathogens sooner, mimicking early infection signals without introducing any live or inactivated pathogens.

2

Signal & Mobilise

Triggers key innate immune pathways, increasing immune cell activity and natural antimicrobial molecule production—more immune cells on patrol, faster alarms, tighter control.

3

Act & Defend

Primed shrimp: boosted phagocytosis, AMP release, melanization—the front line respond faster under real disease pressure, limiting spread before losses or visible symptoms occur.

4

Sustained Readiness

Short, targeted feeding programs maintain an epigenetically reinforced immune alertness through high-risk windows, supporting consistent performance.

Bio-active peptides
No whole pathogens
Vaccine Like
Protection

**Faster response.
Fewer outbreaks.
Steadier harvests.**

ShrimpGuard™ HATCHERY

Feed-based immune priming for broodstock and early life stages—supports readiness maternal immune resilience.

Inclusion: 2% (20 g/kg feed),
5 consecutive days, monthly,
Mixed into broodstock feed



Delivered through routine feeding, it helps shrimp stay prepared before pathogens strike, from broodstock and hatchery to grow-out.

Feed-based readiness and health support through stress and disease-risk windows in grow-out stages.

Inclusion: 1% (10 g/kg feed),
3 consecutive days, weekly,
Top-dressed on regular feed.

ShrimpGuard™ GROW-OUT

100% natural	Microbiome-friendly	No Cold chains	Residue-free	Export Ready
Room-temp stable	Needle-Free	Vaccine-Like Protection	No withdrawal period	
Higher survival	Stronger Shrimps	Lower Outbreaks	Better Yield	Higher Margins

Validated In Real-Farm conditions

TESTED IN L. VANNAMET AND P. MONODON



04+ COUNTRIES 10+ TRIALS

INDONESIA, VIETNAM, INDIA, SINGAPORE



SURVIVAL RATE

↑ from 0% → >85%

MORTALITY REDUCED

↓ by 52.7%

PRODUCTIVITY (TON PER HA)

↑ by 43.8%

AVERAGE BODY WEIGHT

↑ to 35.5g vs. 34.9g

ABW

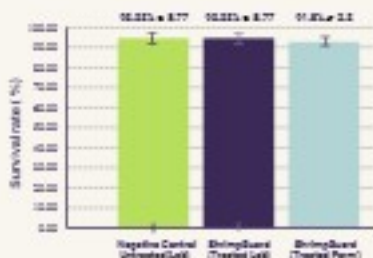
↑ by 131%

Pathogen load non-detectable by Day 17

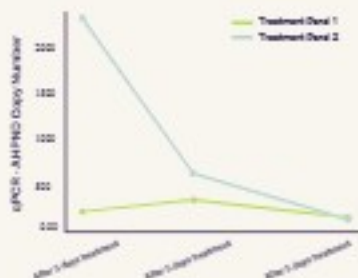
No Negative Impact on FCR, feed behavior, or water quality

* Complete trial results available on request.

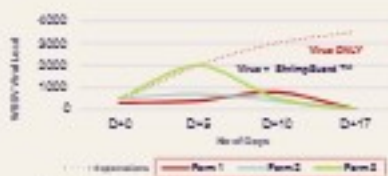
Efficacy assessment of ShrimpGuard™ (Viral)



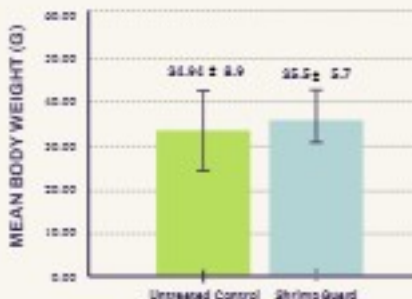
Efficacy assessment of ShrimpGuard™ (Bacterial)



Viral Load Reduction - Field Trials
Pathogen Genome Copies Over Time



As observed at farms that had natural infection of WSSV, and ShrimpGuard was used.





What It Means for Your Farm?





With ShrimpGuard™

Fewer mortalities → More harvests

Cleaner shrimp → Better prices

Less stress → Healthier ponds

No antibiotics → No rejections



ShrimpTrident

Pathogen-Specific Early-stage Intervention

A feed-integrated, multi-peptide or RNAi based oral biologic designed to Intervene early before pathogen pressure rises across hatchery and grow-out stages—built for rapid response, reduce pathogen replication, support immune defense, and protect overall harvest performance.



Pathogen-specific response—ensuring precise, effective immune support.



Rapid impact, faster recovery & Proven to reduce pathogen load.



Protects yield, reduces mortality, helps maintain harvest quality, size, and productivity.



Administered at first signs of infection to limit spread, reduce mortality & safeguard harvest potential at risk

Outbreaks move fast. ShrimpTrident helps you act faster.

Because fast-replicating viruses and bacteria often outrun the innate immune response in high density environment, and the window for action is short.

Even minor delays in action lead to massive survival losses and pond collapse.

WITHOUT EARLY INTERVENTION

- ⚠ Shrimp immune systems are too slow to control fast-replicating pathogens.
- ⚠ Mortality rises sharply within days
- ⚠ Entire ponds can be lost in 3–10 days depending on pathogen virulence

ShrimpTrident steps in when:

PCR-CONFIRMED INFECTION IS DETECTED

CLINICAL SIGNS BEGIN TO APPEAR

A NEIGHBOURING POND IS AFFECTED

EARLY DISEASE BUT IS NOT YET SPREAD



HATCHERY AND NURSERY

Pathogen specific early stage intervention to protect juvenile shrimp during vulnerable development phases.

INCLUSION: 1% (10 G/KG FEED)

Packaging: 1kg, 5kg, 20kg options

GROW OUT STAGE

Early stage intervention & extended protection in grow-out ponds, critical to preventing losses due to outbreaks.

Daily, mixed with all meals., min 15 days, extend as needed until harvest in high-risk ponds, consult specialist.

HOW SHRIMPTRIDENT WORKS

1

Detect & Confirm

Pathogen signs are detected early on-farm—via qPCR, clinical cues, or drop in feeding.

ShrimpTrident is timed for this window—before clinical spread escalates.

3

Intervene & Stabilise

ShrimpTrident compounds work systemically:

- **RNAi binds** viral RNA, reducing replication load
- **Peptides modulate** immune effectors, support epithelial & gut integrity

Shrimp hold performance longer—even under pathogen pressure.

FAST, TARGETED BIOLOGICAL CONTROL

Lower pathogen pressure
steadier survival, and
protected performance.

2

Target & Activate

Depending on the pathogen, ShrimpTrident activates one of two biological mechanisms:

- **RNAi** → Silences virus replication (e.g., IMNV, WSSV)
- **Multi-Peptide** → Slows pathogen progression, reinforces pond resilience (e.g., Vibrio, EHP)

Shrimp Trident variants are delivered cleanly through feed—no injections, no handling stress.

4

By lowering pathogen activity and supporting defense, ShrimpTrident helps:

- Limit spread
- Protect survival
- Maintain feed efficiency

All through **timely, stress-free intervention** during critical windows.



SHRIMPTRIDENT MYO Juvenile + Grow-Out

A feed-based RNAi biologic designed to trigger shrimp's innate gene-silencing machinery (Dicer, RISC complex), impeding viral replication, thus, helping shrimp survive and recover from early-stage IMNV (Infectious Myonecrosis Virus) infections.

SHRIMPTRIDENT SPOT Juvenile + Grow-Out

A Feed-based RNAi biologic designed to regulate gene expression to halt viral replication and provide early-stage immune support against WSSV (White Spot Syndrome Virus).

SHRIMPTRIDENT VIB Juvenile + Grow-Out

Feed-based Multi Peptide biologics to combat bacterial infections and disrupt virulence factors or critical pathways, blocking AHPND (*Vibrio*) progression and reducing the need for antibiotics.

SHRIMPTRIDENT EHP Juvenile + Grow-Out

Feed-based Multi Peptide biologics to combat bacterial infections and disrupt virulence factors or critical pathways, blocking *Enterocytozoon hepatopenaei* progression and reducing antibiotic usage.

CUSTOM SOLUTIONS AVAILABLE ON REQUEST

100% natural	Microbiome-friendly	No Cold chains	Residue-free	Export Ready
Room-temp stable	Chemical - Free	No Antibiotics	No withdrawal period	
Higher survival	Stronger Shrimps	Steadier Harvest	Better Yield	Higher Margins

ShrimpTrident Myo Validated in Real- farm conditions



04+ COUNTRIES 10+ TRIALS

INDONESIA, VIETNAM, INDIA, SINGAPORE



TESTED IN L. VANNAMEI AND P. MONODON



SURVIVAL RATE

↑ from 82% → 90.7%

MORTALITY REDUCED

↓ by 52.7%

BIOMASS GAIN

↑ by 43.8%

AVG DAILY GROWTH

↑ by 55%

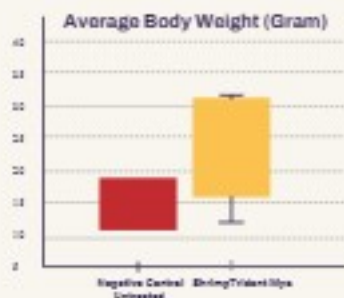
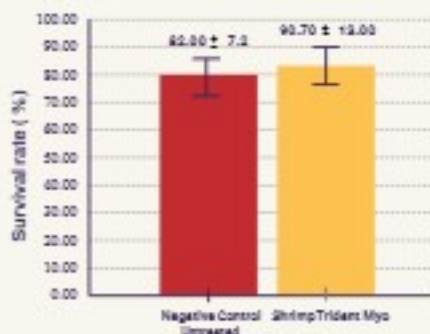
ABW

↑ by 131%

IMNV viral load

undetectable by Day 15

**Muscle recovery observed
in treated shrimp**



* Complete trial results available on request.



ShrimpTrident helps farms respond fast to
Pathogens—**with no injection, no antibiotics,**
and measurable **survival & performance gains.**

Built for real-time intervention, it
gives shrimp a fighting chance—
naturally, and on time.



Clean feed-based disease and health management solutions for shrimp farming by Teora

Product Line	Use case	Variant	Target Pathogens
 ShrimpGuard™	PROTECTIVE SHIELD Broad-Spectrum, Feed-Based Immune Biologic for Proactive health, Early priming, Continuous Immune readiness and disease resilience : Use proactively, before disease stress windows.	ShrimpGuard™ Hatchery For Broodstock & PLs	Broad-spectrum- for both viral and bacterial infections in shrimp farms
		ShrimpGuard™ Grow-Out From Nursery to harvest	Broad-spectrum- for both viral and bacterial infections in shrimp farms
 ShrimpTrident	Pathogen specific portfolio of precision feed based biologics that activates disease intervention, rapidly reducing pathogen loads enhances immunity and survival in shrimp farms at early detection : Use immediately after early detection or lab confirmation of disease.	ShrimpTrident MYO Juvenile + Grow-Out	IMNV (Infectious Myonecrosis Virus)
		ShrimpTrident SPOT Juvenile + Grow-Out	WSSV (White Spot Syndrome Virus)
		ShrimpTrident VIB Juvenile + Grow-Out	Vibrio spp.
		ShrimpTrident EHP Juvenile + Grow-Out	EHP (Enterocytozoon hepatopenaei)
Custom Solution	Custom pathogen specific solutions and protocols can be developed.	Available on Request	Mixed pathogen risk depending on your farm challenges.



**This isn't just about saving shrimp—
it's about saving livelihoods, securing
farming systems, and building a
sustainable future for aquaculture.**



Our goal is simple—to future-proof farmed food production without sacrificing sustainability, profitability, or global health.

1



FIRST RIPPLE: FARMERS

- Income can double through higher survival; costs drop as you move away from expensive unsustainable health solutions
- No export rejects
- Less waste due to disease losses

2



SECOND RIPPLE: CONSUMERS

- Antibiotic-free protein
- Chemical free Food
- Traceable, safe food
- Nutritious, clean eating



RIPPLE

**Disease, Health And
Growth Solutions
Available For**

Shrimp Aquaculture
Fish Aquaculture
Livestock
Poultry
Crop Agriculture
Companion Health

3



THIRD RIPPLE: PLANET

- Less chemical runoff
- Biodiversity restored
- Carbon footprint reduced
- Water systems cleaned

4



FOURTH RIPPLE: HUMANITY

- AMR crisis averted
- Less Farmer suicides
- Many lives saved
- Food security achieved
- Food safety-Future protected



EFFECT



**PARTNER WITH
TEORA TO**



Save billions in annual disease losses
Prevent AMR deaths & Produce clean
Feed 10 billion people sustainably
Create the future of farming profitably

Also Available: Feed-Based Biologics for Fish Health.

- Viral, Parasite & bacterial disease support
- Broad Immune readiness across species
- Enhanced Growth performance naturally

Validated across multiple finfish species including Tilapia, Seabass, Trout, Salmon and others.



**Request the Full Aquaculture
Product Brochure Email us :
Rishita@Teora.life**

**We don't need more. We need to lose less,
wasteless, treat less, and grow smarter.**

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**No matter your size, sector, or species—if you're
farming and feeding, we're ready.**

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