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# IMMULATOR<sup>®</sup> PLUS

Feed Premix

# IMMULATOR<sup>®</sup>

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## Role of IMMULATOR During Viral Outbreaks in Broilers

During the period from June to September 2023, broiler farmers of almost whole of the states of West Bengal and Bihar faced viral outbreaks of suspected Nephropathic IB, typical IBH and Fowl Adenovirus causing very high mortality.

In broilers, the disease usually starts early at 7 – 8 days age with varying symptoms of enteritis, pasty vent, dullness and sudden death. Mortality varies from 5 – 50% depending upon contingency management practice. The disease affects almost all small & big broiler integrators with different vaccination programs. Use of antibiotics were found to be ineffective in all those cases.

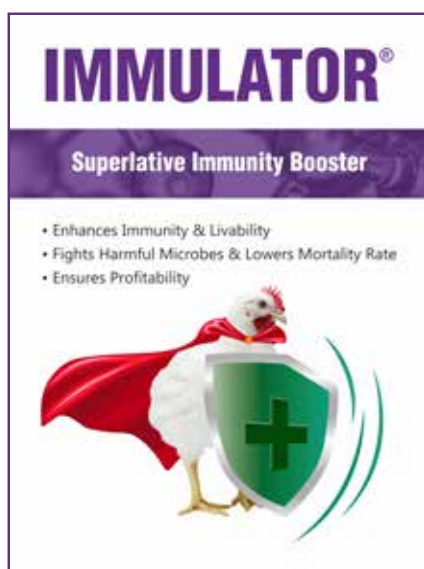
There were many such cases in North 24 Parganas, East & West Burdwan, Midnapur, Bankura, Nadia. The history, epidemiology, clinical signs, mortality patterns & recovery process indicated the presence of some self-limiting viral infections. Postmortem clinical lesions included congested kidneys with uric acid crystals, enlarged fragile liver with fatty changes, damaged necrotic gut mucosa leading to thinning of intestinal wall, gizzard erosion, ascites with secondary E. coli & Mycoplasma infections.

Many broiler farmers did serological tests after collecting the necessary samples which confirmed the presence of either one or two or all the above-mentioned viruses.

One of the renowned consultants suggested the usage of IMMULATOR through drinking water @ 5 ml to 10 ml per 100 chicks for a period of 5 – 7 days to improve the immunity of chicks in addition to symptomatic treatment like liver tonic with toxin neutralizers, multi-enzymes, probiotic & kidney flushers.

IMMULATOR helped a lot in reducing the mortality during the viral outbreak to half in almost all cases. Body weight & FCR was very satisfactory as mortality was under control and the immune system was fully functional.

The unique combination of Beta Glucans, Nucleotides, Peptides, Vit E, Selenium and phytobiotics in IMMULATOR helps in providing an excellent immunostimulatory effect.





## *Celebrating Excellence: Annual Meet at Ibis Styles, Goa*



From **April 9th to 12th**, Provet team came together at the picturesque **Ibis Styles, Goa**, for an **Annual Meet** that was nothing short of extraordinary. Over these four days, we immersed ourselves in a vibrant mix of strategy, knowledge sharing, celebrations, and unforgettable experiences, strengthening our bonds and reinforcing our collective vision for the future.

The event seamlessly blended insightful discussions, skill-enhancing training sessions, and a grand felicitation ceremony that recognized the dedication and remarkable contributions of our team members. One of the most momentous highlights was the celebration of our impressive milestone-achieving **Rs. 100 crores**. This achievement was commemorated with great enthusiasm, marked by a joyful cake-cutting ceremony and a champagne toast, symbolizing our relentless efforts and unwavering commitment to success.



Beyond professional growth, the Annual Meet served as a platform for new joiners to seamlessly integrate into our vibrant culture, interact with seasoned professionals, and gain valuable insights that would empower them in the year ahead. It provided every team member with opportunities to refine their skills, embrace new learning, and align themselves with the organization's ambitious goals.

Adding to the excitement were scintillating performances that enthralled everyone, showcasing talent and creativity in their finest forms. As a gesture of appreciation and to ensure a truly immersive experience, the team embarked on captivating sightseeing tours across Goa's breathtaking landscapes, indulged in the rich flavours of Goan cuisine, and embraced adventure through water sports and an exciting cruise ride. With laughter, joy, and meaningful conversations flowing throughout, these experiences further deepened our camaraderie and created lasting memories.

This memorable gathering truly reflected our journey, achievements, and collective spirit. Here's to scaling greater heights together and creating more moments to cherish!





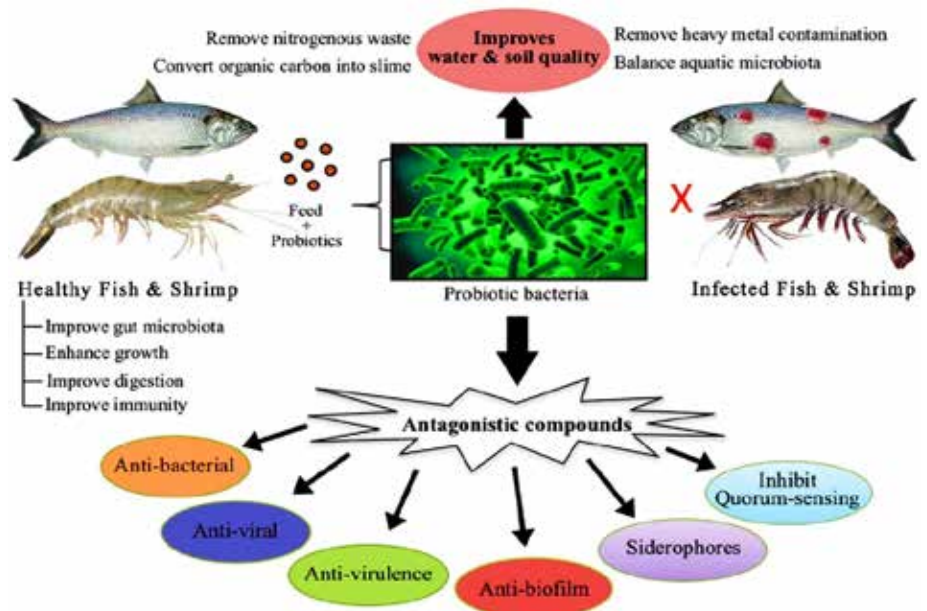
# Use of Probiotics in Aquaculture: A Natural Solution for Healthier Fish Farms

Dr. Vijay Sundar Deva  
Product Manager  
Blunova

## Introduction:

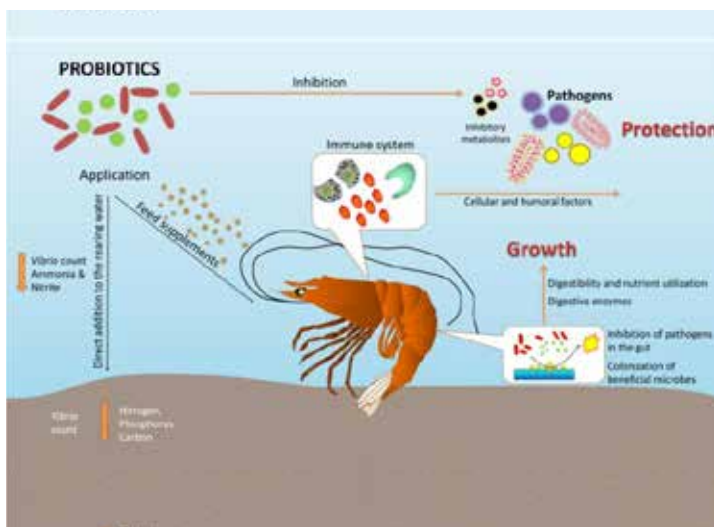
As aquaculture continues to expand to meet global seafood demand, fish farmers are seeking sustainable ways to boost health, reduce disease, and improve production.

Probiotics are live beneficial microorganisms that, when introduced into fish feed or water, support gut health, enhance immunity, and promote a balanced microbial environment. In fish and shrimp farming, they've shown impressive results: faster growth, better feed conversion, reduced disease outbreaks, and even cleaner pond environments.



## Mode of Action of Probiotics in Aquaculture

Probiotics work through several natural mechanisms that make them highly effective in improving fish and shrimp health. Their mode of action can be grouped into a few key areas:



### 1. Gut Microbiota Balance

Probiotics help maintain a healthy balance of microorganisms in the digestive tract. By outcompeting harmful bacteria for nutrients and space, they reduce the risk of infections and promote better digestion.

### 2. Enhanced Digestive Enzyme Activity

Certain probiotic strains produce enzymes like proteases, amylases, and lipases, which help break down feed more efficiently. This leads to better nutrient absorption and improved feed conversion ratios (FCR).

### 3. Immune System Stimulation

Probiotics can trigger the fish's natural immune responses. They stimulate the production of immune cells and protective molecules, making fish more resistant to pathogens and stress.

### 4. Pathogen Inhibition

Probiotics produce substances like bacteriocins and organic acids that inhibit the growth of harmful bacteria. This biological control helps reduce the need for antibiotics and lowers disease outbreaks.

### 5. Improvement of Water Quality

Some probiotic strains, especially when added to water systems, help break down organic matter, ammonia, and nitrites—keeping water cleaner and more stable, which is critical for fish health.

## Application of Probiotics in Aquaculture: A Path to Sustainable Farming

Probiotics are becoming an increasingly popular tool in aquaculture for improving fish health, boosting production, and maintaining cleaner water. The application of probiotics can be tailored to different species, farm types, and production systems. Here's how they can be effectively utilized:

### 1. Incorporating Probiotics in Fish Feed

One of the most common methods of administering probiotics in aquaculture is through the fish's diet. Probiotic strains are added to fish feed in powdered or liquid form. When ingested, these probiotics colonize the fish's gut, where they enhance digestion, improve nutrient absorption, and strengthen the immune system. For species such as tilapia, shrimp, and trout, probiotics in feed can be especially beneficial in enhancing feed conversion rates and reducing reliance on antibiotics.

### 2. Probiotics in Water Systems

For farmers using Recirculating Aquaculture Systems (RAS) or pond-based systems, probiotics can be added directly into the water. These probiotics not only improve the health of the aquatic organisms but also help reduce the buildup of harmful substances in the water, such as ammonia and nitrites, by breaking down organic matter. This helps maintain cleaner, more stable water quality, which is essential for fish health and growth.

### 3. Probiotics for Hatcheries and Larval Stages

The early stages of fish development are particularly sensitive to environmental stress and disease. In hatcheries, probiotics can be used to treat larvae and fry. Probiotic-treated water helps to establish a healthy microbial environment, promoting the development of a robust immune system from the start. This early intervention helps prevent disease outbreaks and improves survival rates during the vulnerable larval stage.

### 4. Environmental and Disease Management

In integrated farming systems or polyculture settings, probiotics are often applied to water to enhance the overall environmental conditions. They assist in breaking down waste, reducing harmful pathogens, and promoting better water quality. By maintaining a stable and healthy environment, probiotics indirectly reduce the frequency of disease

outbreaks, leading to less reliance on chemical treatments or antibiotics.

### 5. Using Probiotics for Stress Reduction

Fish, like humans, are vulnerable to stress, especially in crowded or suboptimal environmental conditions. Probiotics can help fish cope with stress by supporting their immune systems and improving gut health. This is particularly beneficial in high-density farming situations, where fish are often exposed to stressors like water fluctuations, handling, and changes in feeding routines.

### Key Considerations for Effective Application

**To maximize the benefits of probiotics, it's important to:**

- Choose the right probiotic strain: Different strains are effective for different species and farming conditions, so selecting the appropriate type is crucial.
- Follow recommended dosages: Proper application rates ensure that probiotics are effective without being wasteful or harmful to the environment.
- Monitor water and feed quality: Ensure that water quality and feeding practices align with the introduction of probiotics for optimal results.

### Conclusion: A Natural Path to Sustainable Aquaculture

Probiotics offer a promising, natural solution to some of the most pressing challenges in modern aquaculture. By promoting gut health, enhancing immunity, improving feed efficiency, and contributing to cleaner water, probiotics are proving to be an invaluable tool in creating healthier fish and more sustainable farming practices. Whether used in feed, water systems, or hatcheries, the application of probiotics not only helps reduce the reliance on antibiotics but also supports long-term environmental sustainability and productivity.







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## Benefits

- » Maintains hygienic pond bottom.
- » Keeps the pond free from toxic materials & malodorous gases.
- » Maintains the dissolved oxygen level.
- » Keeps the pond free from pathogenic micro organisms.
- » Maintains stable plankton bloom.
- » Effective over a wide range of pH and salinity.
- » Improves survival and productivity.



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# Rising Beyond UPSC Failures: Embracing a Journey of Purpose and Success

Every year, over a million students attempt the formidable Union Public Service Commission (UPSC) exam, aspiring to join elite services like the Indian Administrative Services or the Indian Police Services. Despite their dedication, only a fraction makes the cut.



The UPSC exam is very tough and puts a lot of pressure on students. Many who prepare for it experience mental health issues like anxiety and depression. This happens because of the constant fear of failing, feeling isolated from friends and family, and the intense competition.

Self-inflicted stress begins as a result of ambiguity and nervousness about one's upcoming academic and professional life. The highly competitive and advancing world makes it impossible to avoid this stress. Stress, depression, and anxiety have a very well reciprocal link. Some students function better under pressure while some break down due to this stress.

While we often celebrate the success stories, it's equally important to spotlight those who, despite not clearing the exam, went on to succeed on their own terms.

Let's celebrate the stories of two former UPSC aspirants who made it big in their lives without clearing the examination.

## From Crisis to Courage:

### How Kajal Transformed Failure into a Life of Purpose and Fulfillment

Kajal Srivastava experienced a profound personal crisis after failing the UPSC exam in her sixth and final attempt. Overcome with despair, she stood on her balcony, contemplating an unimaginable step — ending her own life. She later reflected on this moment, admitting that she had been too exhausted to continue proving herself and had longed for instant peace. Fortunately, her sister intervened just in time, pulling her back from the brink and reassuring her that failing the UPSC did not equate to failing in life.

Despite her best efforts, including achieving high scores in mock tests, Kajal faced repeated setbacks. The pressure mounted as people around her began telling her parents that she was wasting their time and money. In the midst of this turmoil, a turning point arrived in 2017 when **Kajal discovered Kalaripayattu**, an ancient Indian martial art. She described how practicing this art brought healing to her fractured spirit, calling the experience miraculous.

Embracing this newfound passion, Kajal excelled in Kalaripayattu and went on to establish the TAVASI movement. Through this initiative, she has conducted workshops promoting the martial art, helping over 2,000 individuals living with trauma find solace and empowerment. In addition to her work with TAVASI, Kajal ventured into entrepreneurship, founding Swadesi Sports Wear — a homegrown brand specializing in natural activewear. This new direction brought her fulfillment and a renewed sense of purpose.

Reflecting on her journey, Kajal expressed pride in herself for not giving up. She shared that restarting her life after the setbacks had ultimately been a blessing, as she now feels grateful for not clearing the UPSC exam.



## From Aspirations to Entrepreneurship:

### How Veda Turned Challenges into a Flourishing Startup Journey

Veda Gogineni was working at a lucrative position at Deutsche Bank in Mumbai, with the opportunity to move to London right in front of her. Still, in 2015, she made a life-changing decision — she resigned to pursue her UPSC dreams. She moved from Hyderabad to Delhi and began preparing with all sincerity.

Despite four sincere attempts and having dedicated three and a half years to preparation, Veda could not clear the UPSC exams. The exhaustive cycle of preparing, failing, and restarting drained her. Recognising the toll on her well-being and prompted by her mother's advice, she decided to step back.

In 2020, **Veda pivoted to entrepreneurship and co-founded 'Earthful'**, a plant-based supplements company, along with her sister, Sudha. The startup gained notable recognition on Shark Tank India, where it secured a Rs 75 lakh investment. This marked a significant milestone in her journey as a co-founder.

Reflecting on her UPSC experience, Veda sees no regrets. She emphasises viewing perceived failures as stepping stones rather than endpoints.



## Resilience, Reinvention, and Empowerment

Kajal and Veda didn't crack the UPSC. But they cracked something far more valuable — the courage to rewrite their own stories. And that, in itself, is a success worth celebrating.

They redefined their paths by embracing entrepreneurship. Veda's Earthful flourished on Shark Tank India, while Kajal's Kalaripayattu-driven career marked triumph. They show that not clearing UPSC isn't the end!

These women's incredible journey from despair to empowerment is an encouraging example of perseverance and strong will.

**Here we encourage students to consider competitive exams as a stepping stone in their journey, not the destination. Embrace these challenges as opportunities for growth but remember that your worth and potential extend far beyond any single test. Keep pushing forward, stay resilient, and let your experiences shape you into a well-rounded individual.**

*References: The Better India*



# The Gift of Being Heard

In the heart of the city, where life moves at breakneck speed, Aarya feels like a ghost. She speaks, but no one listens - not at work, not among friends, not even at home. Her words evaporate into the din of digital notifications and hurried conversations. She wonders, Am I invisible? Does my voice even matter?

One evening, exhausted by the weight of unheard thoughts, she stumbles into a quiet park - a rare oasis untouched by the rush. She sits on a weathered bench, eyes fixed on the rippling pond, words caught in her throat. Beside her, an elderly man, Ravi, watches the same water with a quiet reverence.

After a few minutes, he says, "You look like you have a lot to say."

Aarya hesitates. She's learned that words, once spoken, often dissolve into the void. But there is something in Ravi's presence - an invitation in his silence - that feels safe.

So, she speaks. About the loneliness that shadows her, the grief of losing her mother, the ache of feeling unheard in a world that celebrates loudness but disregards depth.

Ravi listens - not to respond, not to offer advice, not to correct her - but simply to hear her.

And something shifts.

For the first time in years, Aarya feels her words land, absorbed by someone who understands that listening is not just hearing - it's witnessing. The weight she has carried begins to lighten.

Over time, Aarya keeps returning to the bench. Each visit, she speaks a little more, and Ravi listens as if her words are treasures. Through this, Aarya begins to heal - not because the world has changed, but because someone gave her the one thing she desperately needed-space to exist fully.

One day, Ravi is gone. His absence is like a quiet echo, reverberating in the space they shared. But he has left something behind - a lesson that she now carries forward.

Aarya becomes the listener she once needed. She gives others the gift that Ravi gave her - the gift of being heard.

And in doing so, she understands - **Silence Is Not The Absence Of Sound, But The Presence Of True Listening.**





# BLOSSOMS OF RENEWAL:

## The Cultural and Global Charm of Cherry Blossoms

Nothing says spring like a blooming cherry blossom tree. These gorgeous trees usher in the new season around the world, but have you ever wondered why cherry blossom trees are so popular and widespread? Let's explore their fascinating history, cultural significance, and global charm.

Cherry blossoms, known as Sakura in Japan, are often seen as symbols of renewal, rebirth, and new beginnings. Due to their short bloom period, they also represent the fleeting nature of life - a reminder to cherish every moment.

### Sakura History in Japan



The ritual of viewing cherry blossoms dates back to the 700s in Japan, when the trees were considered sacred and connected to specific religious beliefs.

Cherry blossoms are well known around the world for their radiant, delicate and transient beauty. However, they are more than simply beautiful trees, as Sakura have strong ties to Japan's history, culture and identity. Originally used to divine the year's harvest, Sakura came to embody Wabi - Sabi philosophy and Shinto ideals of impermanence, hope and renewal and are now one of Japan's most iconic natural symbols.

The bloom period each spring is only about a month long, and each individual tree only blooms for a week or two. Peak bloom takes place when 70 percent of the trees in a certain area are flowering all at once.

Across the diverse landscape of Japan's main islands, this magical moment can occur between March to early May. After the brief period of full bloom, the small, delicate flowers start to flutter gracefully from their trees. The blossoms are said to be the most beautiful in this final stage as the white and pink petals gently float to the ground.

For many Japanese, the blooming of the cherry blossom trees symbolises human life, transience and nobleness. The Japanese love to celebrate and cherish the cherry blossoms trees during the limited flowering period and many people hold 'flower watching' parties known as Hanami. You simply cannot travel to Japan in spring without appreciating the beauty of the Sakura and experiencing a Hanami party for yourself!



## Cherry blossoms in the US



Cherry blossoms in the U.S. are a celebrated symbol of spring, renewal, and friendship, particularly with Japan. The most iconic location is Washington, D.C., where the National Cherry Blossom Festival takes place annually. This tradition began in 1912 when Japan gifted 3,000 cherry trees to the U.S. capital. The festival features parades, cultural performances, and breathtaking views around the Tidal Basin.

Macon in Georgia is known as the "Cherry Blossom Capital of the World," boasting over 350,000 Yoshino cherry trees. Each year, the city hosts the International Cherry Blossom Festival, a vibrant celebration filled with live entertainment, cultural activities, and festive events. The festival typically takes place in late March, coinciding with the peak bloom period.

### A Global Celebration of Nature's Artistry

Beyond places in Japan, Washington D.C., and Macon, Georgia, there are also gorgeous blooms each year in cities around the world, including Stockholm, Paris, New York, Hamburg, Vancouver, London, Copenhagen, Edinburgh, and Dublin, among others.

### Japan in Full Bloom: Where Sakura Season Comes Alive

Given the cultural significance of the Sakura, there are countless events, festivals, and speciality tours that's centred around the blooming season. Tokyo, Kyoto, and Osaka are the top places to see the flowers, as they are the most popular destinations for first-time travellers. Some tours even extend into May for northern areas like Hokkaido.

Cherry blossom tours to Japan are a magical experience, offering a chance to witness the fleeting beauty of Sakura in full bloom. These tours typically occur during late March to early April, when most regions of Japan are adorned with pastel pink blossoms.



# NURTURING vs. PAMPERING



A young man from the city visited a village for the weekend and struck up a conversation with a farmer. He showed the farmer a photo of his terrace crops and said, "My crops are not growing; they look dull and aren't yielding much." The farmer asked him how he was taking care of the crops. The young man explained, "I nurture them very well. I water them as much as possible and keep adding manure; in fact, I spend a considerable amount of time with my crops."

With a smile, the farmer replied, "There's a difference between nurturing and pampering. The crops need to be nurtured, but they should also grow in harmony with the natural environment. When we overwater them, it becomes heavy for the crops to thrive. Adding too much manure makes the soil too wet, making it difficult for the roots to penetrate."

The young man thanked the farmer, took his advice seriously, and began to implement the changes. As a result, he enjoyed a yield that met his needs.

Now, **let's relate this to the workplace.** When we overemphasize employee engagement, we may create a workforce that relies excessively on external sources of motivation and lacks intrinsic drive. When the engagement diminishes, so does their motivation.

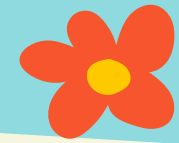
Similarly, **when it comes to children,** too much pampering can lead to dependency, as giving more than they deserve may prevent them from learning the value of what they receive.

**Whether it's plants, employees, or children, we must recognize the difference between nurturing and pampering. Ask yourself what you are doing more of in your life.**

*Courtesy Mr. M. L. Narendra Kumar*



# Gallery





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