



INTABIOTECH SL

BicarPlus+™ Feed

Modified Ultra-Pure Sodium Bicarbonate
for Optimal Performance

The innovative solution revolutionizing animal husbandry
in industrial livestock farming, naturally and efficiently
improving productivity and animal welfare.

Current Challenges in the Livestock Industry

Modern livestock farming faces unprecedented challenges that threaten the business's viability and continuity, requiring increasingly efficient management:



Growing Competition

Increase in local and international competitors putting pressure on margins.



Productive Intensification

Need to optimize every aspect of production to maintain profitability.



Demanding Regulations

Proliferation of sanitary and environmental regulations at regional, national, and international levels.



BicarPlus+™ is the effective answer to these challenges: a feed supplement based on **modified ultrapure sodium bicarbonate**, designed to improve animal productivity and welfare simply, naturally, and efficiently.

Solution for Every Operation Type

Each Sector Has Its Challenges, and BicarPlus+ Adapts to All of Them



Ruminants

Improves milk production and prevents ruminal acidosis and heat stress.



Poultry

Strengthens eggshell quality and optimizes growth.



Crustaceans

Regulates pH and stabilizes saline balance in aquaculture.



Swine

Improves growth and prevents common digestive problems.



BicarPlus+ in RUMINANTS

Significant Increase in Daily Milk Production

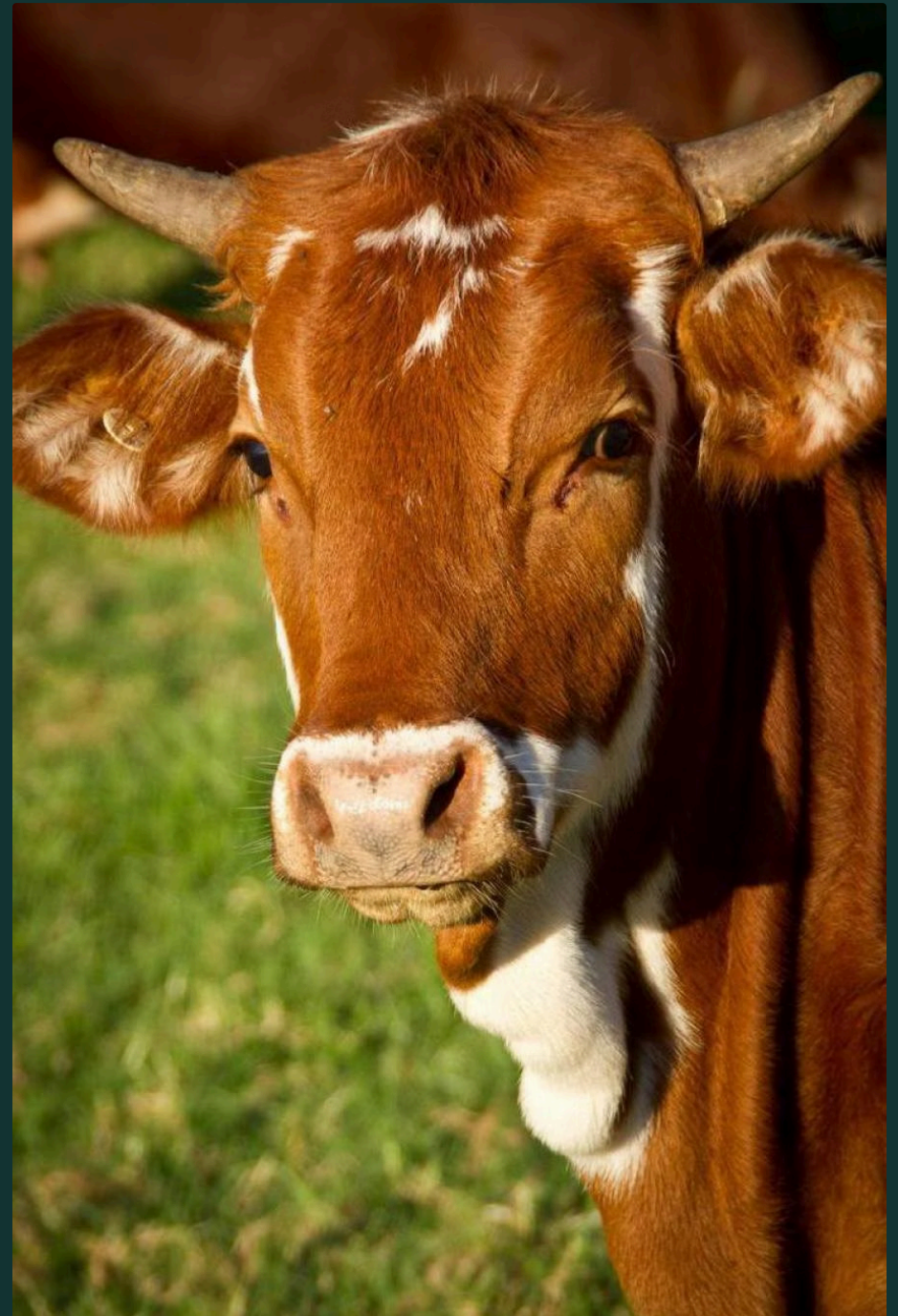
BicarPlus+ significantly enhances the performance of your dairy cows, maximizing milk production and quality naturally.

Prevention of Ruminal Acidosis

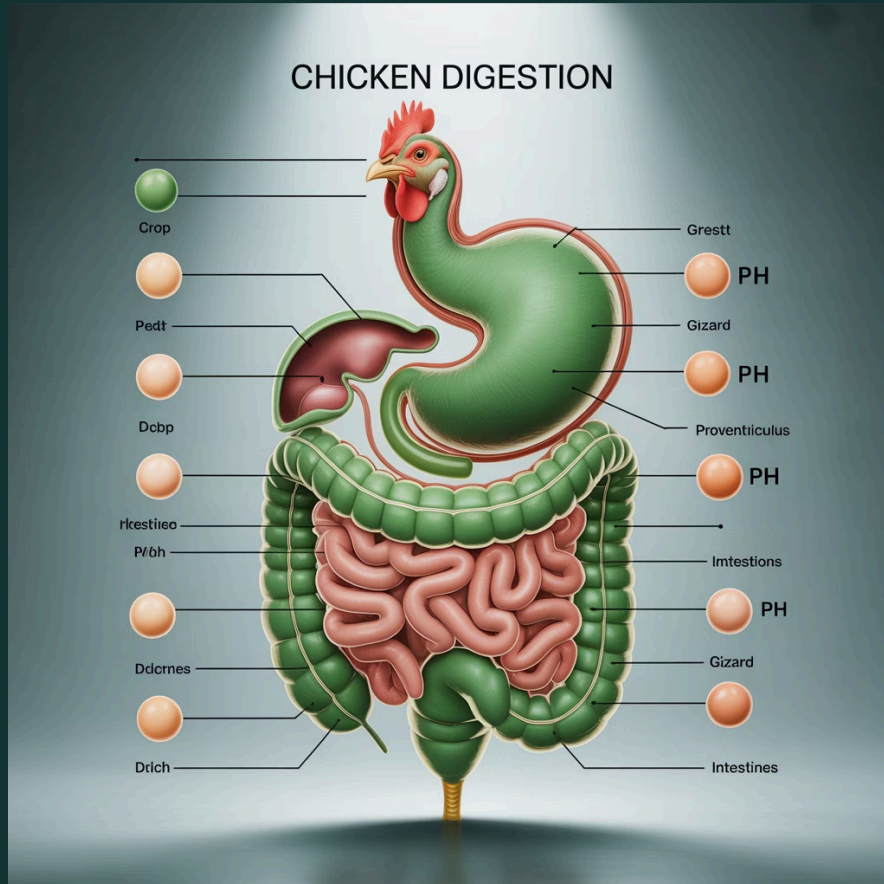
Maintains optimal pH in the rumen, preventing one of the most frequent and costly metabolic disorders in dairy farming.

Protection Against Heat Stress

Helps ruminants maintain their electrolyte balance during periods of high temperatures, preventing drops in production.



BicarPlus+ in POULTRY



Superior Chloride-Free Sodium Source

BicarPlus+ provides optimal sodium supply for poultry without the negative effects associated with other mineral sources.



Firmer and More Resilient Eggshells

Improves shell calcification and strength, significantly reducing breakages and imperfections.



Improved Metabolic Balance

Restores the acid-base balance of laying hens, optimizing their metabolism and productive performance.



Optimized Growth

Boosts poultry development and improves feed conversion.

BicarPlus+ in CRUSTACEANS

Precise pH control in aquaculture farming

BicarPlus+ provides the stability crustaceans need to thrive in intensive farming systems.

Optimal pH Regulation

Maintains the water's acid-base balance, a critical factor for the survival and development of crustaceans in aquaculture farms.

Saline Stabilization

Contributes to internal hydroelectrolytic balance through complex absorption of sodium ions, essential for normal physiological functions.



BicarPlus+ in SWINE



Optimizing Growth and Weight Gain

BicarPlus+ enhances the productive performance of swine, especially during critical development phases.

Digestive Improvement

Promotes the digestion and absorption of nutrients, especially in diets rich in difficult-to-assimilate elements.

Problem Prevention

Reduces common digestive disorders during swine development phases A and C, when animals are most vulnerable.

Increased Feed Efficiency

Optimizes feed conversion, maximizing growth and weight gain with lower consumption.

BicarPlus+Feed in Cattle

Modern cattle farming faces the constant challenge of maintaining profitability in an increasingly competitive and regulated environment. The balance between productivity and animal welfare is fundamental to ensuring business viability.



Ration Optimization

High-energy density diets are necessary for competitiveness but increase the risk of ruminal acidosis.



Anion-Cation Balance

Proper control of electrolyte balance is essential for optimal ruminant performance.



Acidosis Prevention

The risk of acidosis increases with grain-rich diets, compromising animal health and production.

BicarPlus+® has become an essential element in raising cows and other ruminants, ensuring optimal performance without compromising animal health.

Further Benefits of BicarPlus+Feed in Cattle

Improves Milk Production and Fertility

Multicenter studies conducted in various EU countries and Japan have shown improvements of up to **18% in milk production** with doses of 200-300g/day of BicarPlus+.

Solves Problems of Rich Diets by Preventing Acidosis

The ruminal microbiota is highly sensitive to pH variations. BicarPlus+ maintains optimal balance, allowing efficient forage digestion and maximizing the absorption of essential nutrients for milk production.

Reduces the Impact of Heat Stress

When ambient temperature exceeds 68°F (20°C), ruminants experience heat stress, increasing their respiratory rate and losing bicarbonate reserves. BicarPlus+ compensates for these losses with a sodium supply free of chlorides and sulfides.

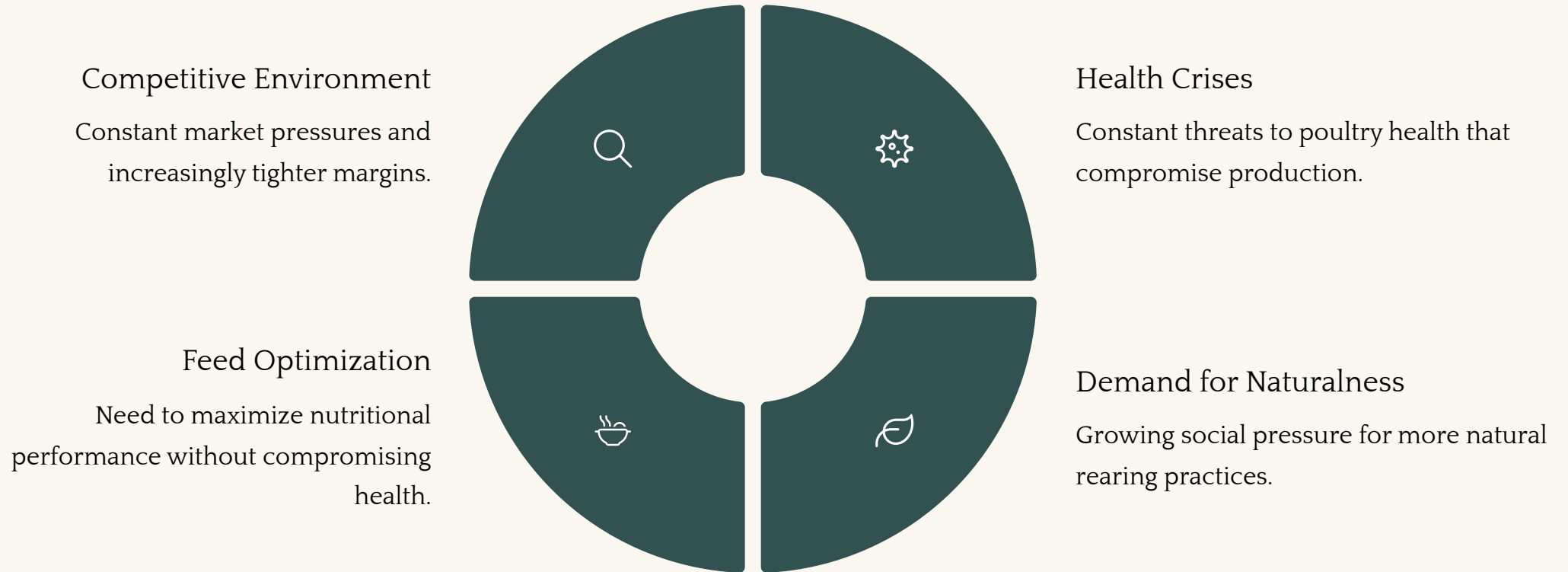
Corrects Electrolyte Balance

The addition of 1% BicarPlus+ provides approximately 118 mEq/kg DM, improving fat and protein content in milk, which significantly increases its quality and commercial value.



BicarPlus+Feed in Poultry

The modern poultry sector operates under intense competitive pressure and restrictive quality demands imposed by major food industry operators.



BicarPlus+ offers a unique opportunity for breeders committed to animal welfare, productive quality, and sustainability, optimizing poultry feed and performance.



Additionally, BicarPlus+Feed in Poultry

Contributes to the real electrolyte balance in poultry

Maintaining a proper electrolyte balance is essential for maximizing feed efficiency and preventing health issues related to acid-base imbalances in poultry.

Acid-Base Imbalance

Conventional poultry diets often lead to electrolyte imbalances that compromise performance and health.

Alkalizing Effect

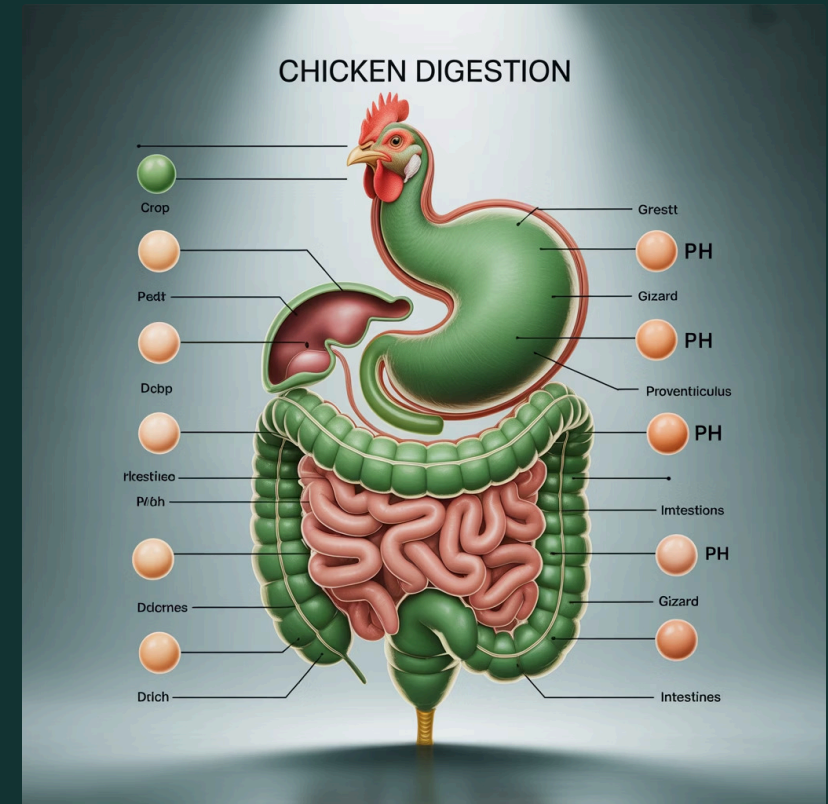
BicarPlus+ exhibits a powerful alkalizing effect on the internal structures of poultry.

Restoration of Balance

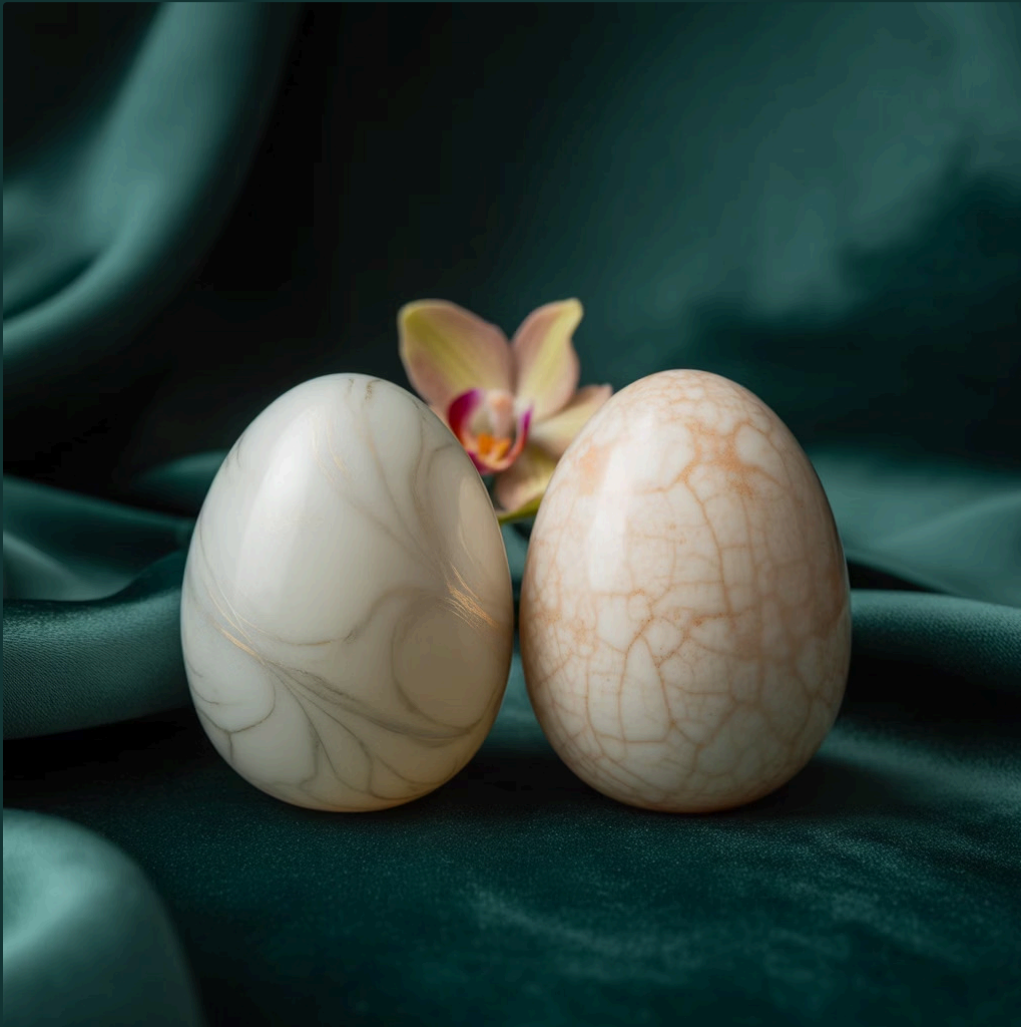
The product significantly contributes to restoring optimal electrolyte balance for poultry.

Improved Metabolic Profile

The result is a more suitable metabolic profile that maximizes feed utilization.



Improves technical performance in egg quality



BicarPlus+ promotes the production of eggs with greater weight and better calcium quality in the shell, a critical factor for profitability in poultry production.



Increased resistance

Increase in shell torsion and crushing resistance compared to control groups.



Fewer imperfections

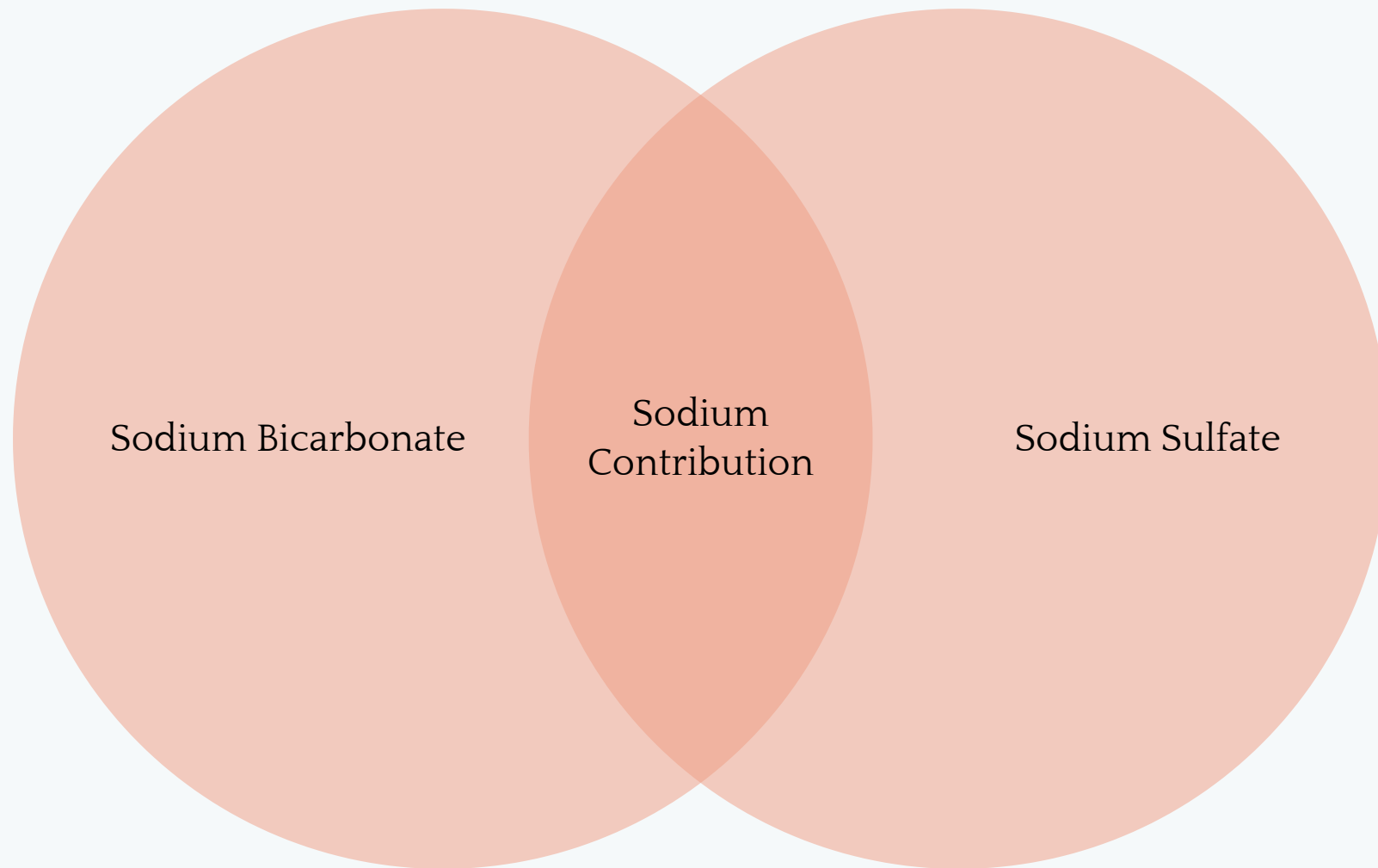
Significant reduction of surface imperfections on the shell, improving the product's visual quality.



Reduction in breakages

Notable decrease in the percentage of broken eggs during handling and transport.

Reduces Intestinal Irritation Caused by Other Products



Problem: Low-Cost Substitutes

Some formulators use **sodium sulfate** as an economical alternative to **sodium bicarbonate** in poultry feed and dietary supplements.

The presence of sulfur in these products is foreign to the natural physiology of birds, causing considerable irritation in their digestive tract, especially in the intestines.

Consequences for Quality

The use of sulfur molecules significantly deteriorates the quality of poultry meat, affecting its organoleptic characteristics.

This generates a negative perception in the final consumer, resulting in a loss of perceived quality and potential reputational damage for brands that use these birds in their products.

Weight Gain and Poultry Litter Improvement

BicarPlus+ enhances feed efficiency and stimulates optimal feed consumption, generating multiple productive benefits:

+15%

Higher Daily Gain

Improves daily weight gain, significantly increasing the weight/rearing day performance.

-18%

Shorter Cycles

Reduces the time needed to reach optimal slaughter weight.

-7%

Water Consumption

Decreases water intake by an average of 6-8%, significantly improving poultry litter quality.

The improvement in litter conditions significantly reduces the spread of pathologies and enhances animal welfare throughout the rearing process.



BicarPlus+Feed in Crustaceans

The industrial development of crustacean farming, such as shrimp and prawns, has become a fundamental economic pillar for several countries, especially in Latin America, like Ecuador.

Accelerated Industrial Expansion

The rise of crustacean aquaculture brings significant challenges that directly impact production and profitability.

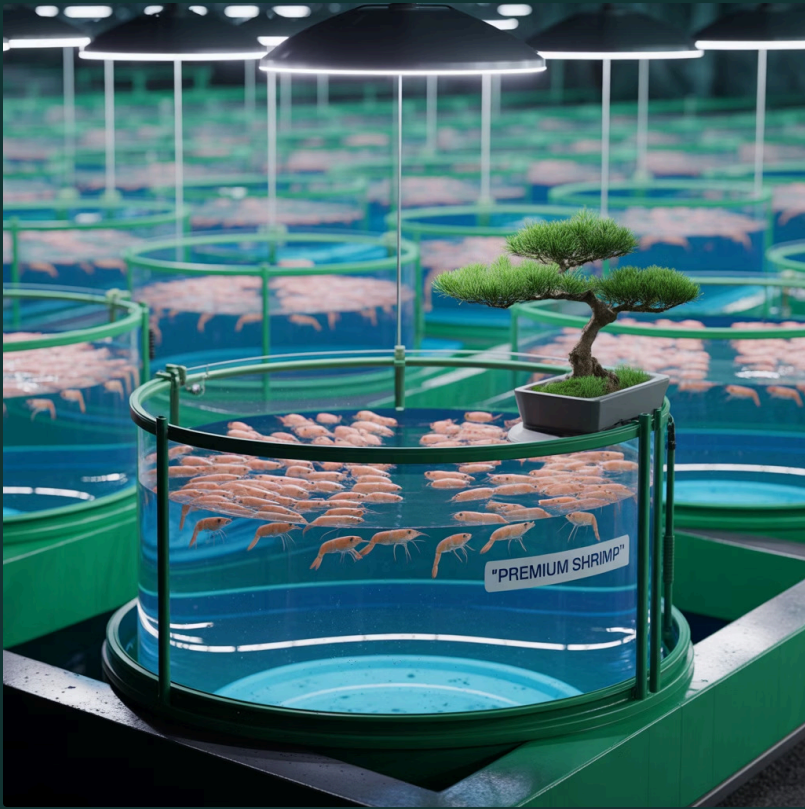
Disease Proliferation

The rapid spread of pathologies affecting the well-being and growth of species is a direct consequence of saturation in aquaculture farms.

Critical pH Control

Precise maintenance of water pH is essential to prevent diseases and ensure optimal crustacean development.

If the water presents low alkalinity and the pH is below 7, crustacean mortality increases rapidly and considerably, leading to significant economic losses.



BicarPlus+: Essential Element in Crustacean Aquaculture

BicarPlus+ has become a fundamental component for pH regulation in aquaculture ponds, especially in closed systems where water balance control presents greater challenges.



Powerful Buffering Effect

Strengthens water's capacity to maintain a stable pH against fluctuations.



Restoration of Ideal pH

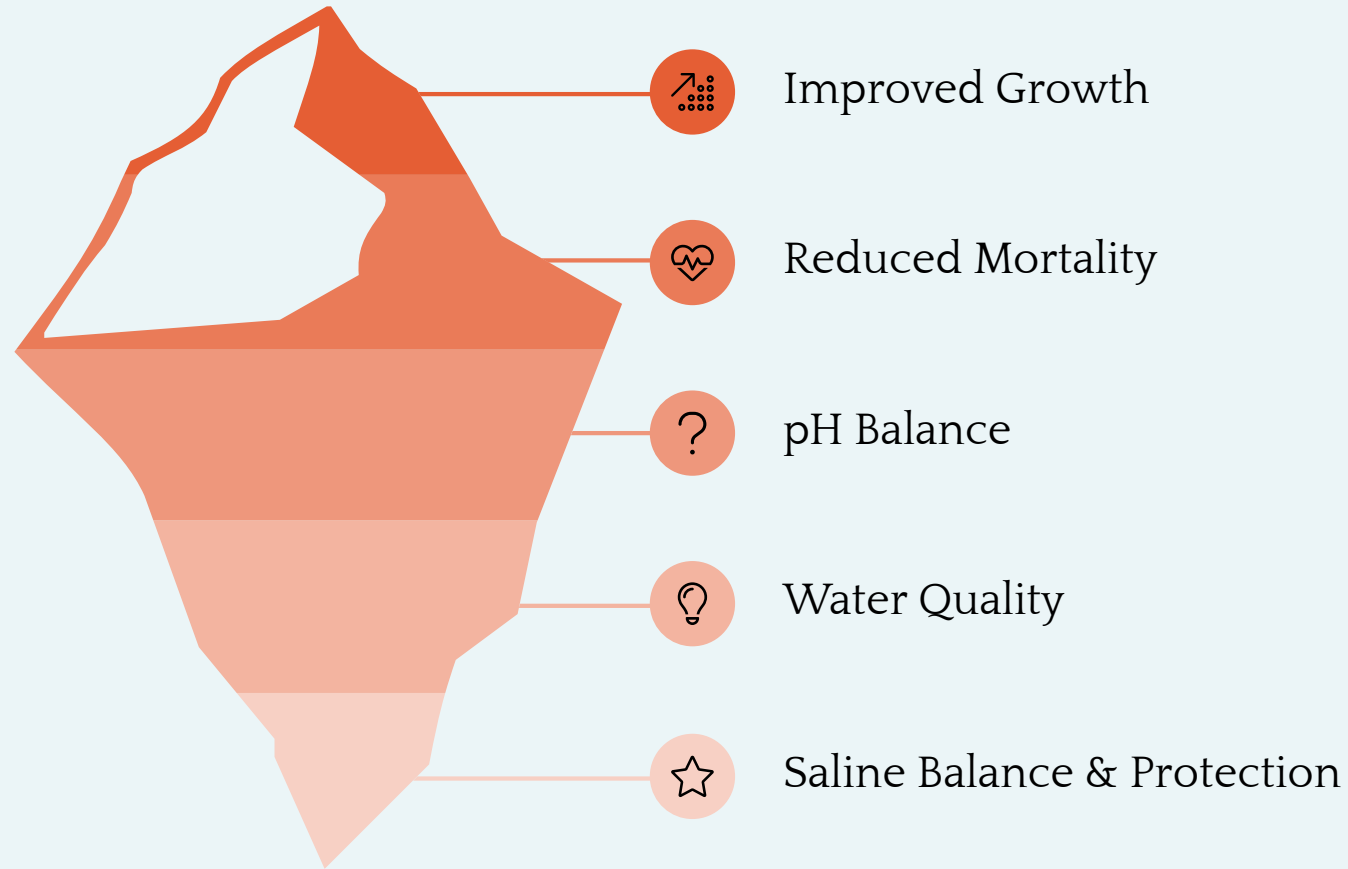
Assists in the recovery and maintenance of optimal pH levels for crustacean development.



Saline Balance during Transport

Decisively contributes to maintaining hydroelectrolytic balance when crustaceans are transported under high-density conditions.

Additionally, BicarPlus+Feed in Crustaceans

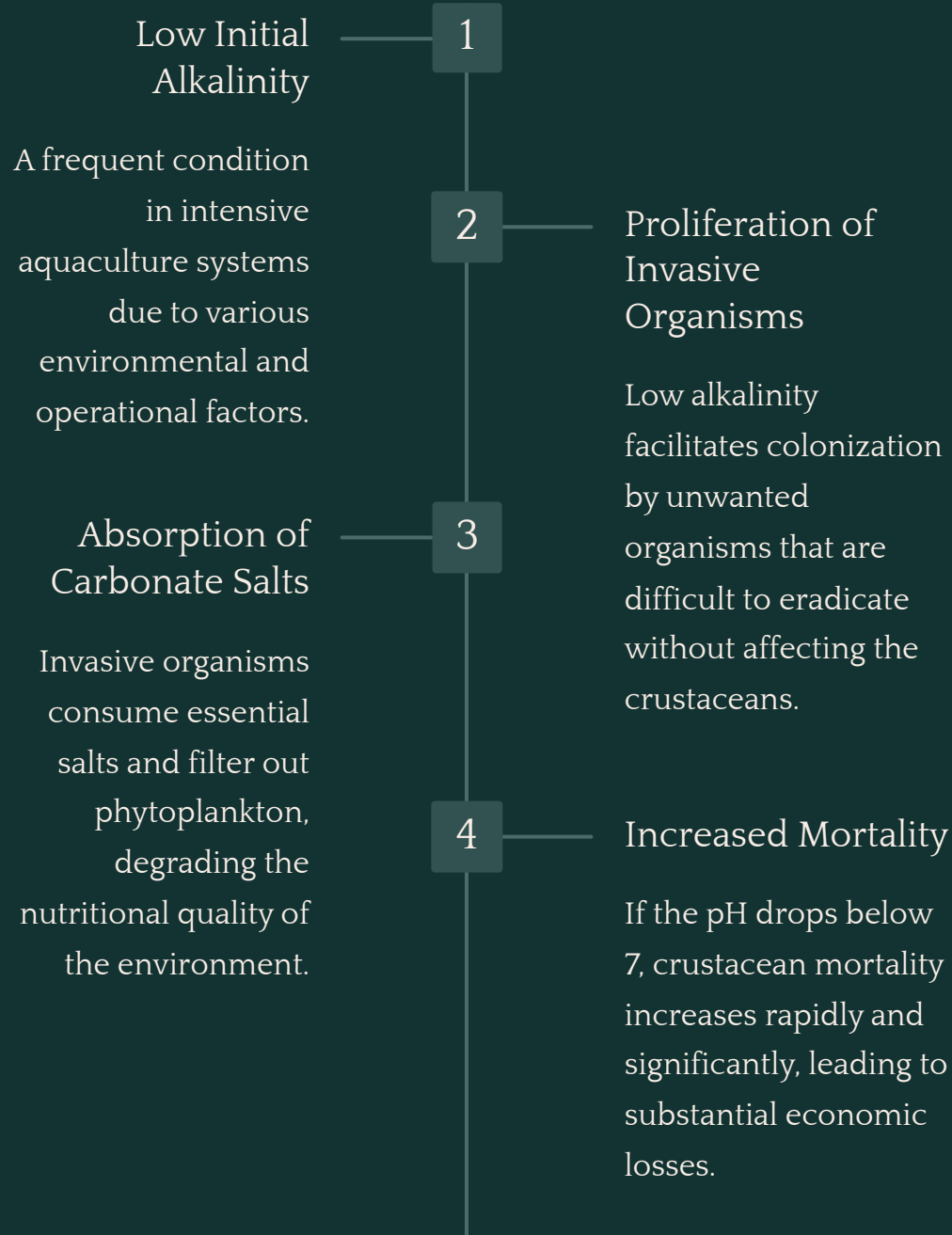


BicarPlus+ represents a comprehensive solution for the main challenges in crustacean aquaculture, addressing both visible issues and underlying factors that determine production success.

Its unique formulation of modified ultrapure sodium bicarbonate provides benefits that go beyond simple pH control, creating an optimal environment for the development and well-being of crustaceans throughout the entire production cycle.

Improving Water Quality in Ponds

Aquaculture breeding facilities frequently face the problem of low alkalinity, which triggers multiple negative cascading effects:



BicarPlus+ intervenes in this negative cycle, stabilizing alkalinity and creating optimal conditions for crustacean development, while inhibiting the proliferation of undesirable organisms.

pH Regulation and Prevention of Acid-Base Imbalance in Water



BicarPlus+ plays a fundamental role in maintaining the acid-base balance of water, which is especially critical in closed cultivation systems.

Stability in Closed Systems

In "closed" ponds, producers face great difficulties in maintaining a stable pH, an indispensable condition for the survival of crustaceans.

Powerful Buffering Effect

The addition of BicarPlus+ significantly strengthens the water's ability to resist abrupt pH changes, even in the face of environmental or metabolic alterations in the system.

Optimal Development Level

The product helps establish and maintain the ideal pH that ensures not only the survival, but also the optimal growth and overall well-being of the cultivated species.

In Transport Water

The transportation of live crustaceans represents one of the most critical moments in the aquaculture value chain, where stress and adverse conditions can compromise product survival and quality.

Extreme Conditions

During transport, crustaceans are packed at high density, which rapidly alters the aquatic environment conditions.

Saline Imbalance

Transport stress and metabolite accumulation alter the internal hydroelectrolytic balance of crustaceans, compromising their viability.

BicarPlus+ Action

The addition of our product to transport water undoubtedly contributes to maintaining the stable internal saline balance of the species.

The result is a higher survival rate during transport and superior product quality upon arrival at its destination.

Preserving the Value of Fresh Product

The transportation of live crustaceans has historically posed a logistical and economic challenge for the aquaculture industry. Traditional alternatives to live transport have involved:

- Pre-processing (frozen or cooked)
- Significant decrease in selling price
- Change in product commercial category
- Loss of premium value associated with fresh product

BicarPlus+ allows live crustaceans to be transported for longer periods, maintaining their quality and commercial value as a top-category premium product.



Second-Category Product

Without BicarPlus+, many producers must opt to sell frozen or processed product at a lower price.

Incorporation of BicarPlus+

The additive stabilizes the aquatic environment during transport, maintaining vital saline balance.

Preservation of Premium Quality

It allows crustaceans to be kept alive longer, retaining their status as a fresh product.

Greater Commercial Value

The product reaches the final consumer in optimal conditions, maximizing its selling price and profitability.

INTABIOTECH SL



Address

Botiguers St., 3, 46980, Paterna, Valencia, Spain

Táctica Business Park



Email

intabiotech@intabiotech.com



Phone

+34 881 092 720 Landline

+34 613 812 425 Mobile



Website

www.intabiotech.com