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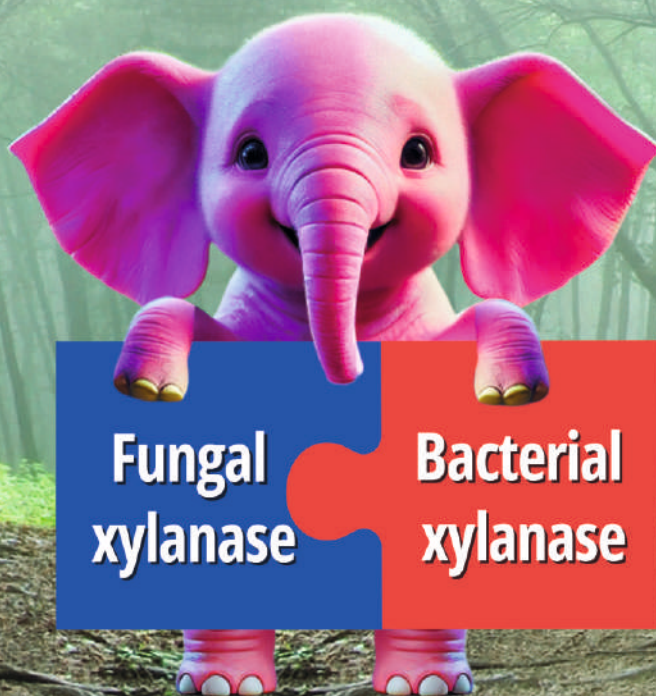




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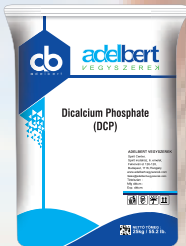
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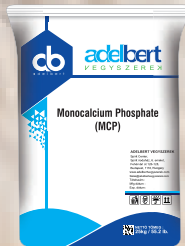
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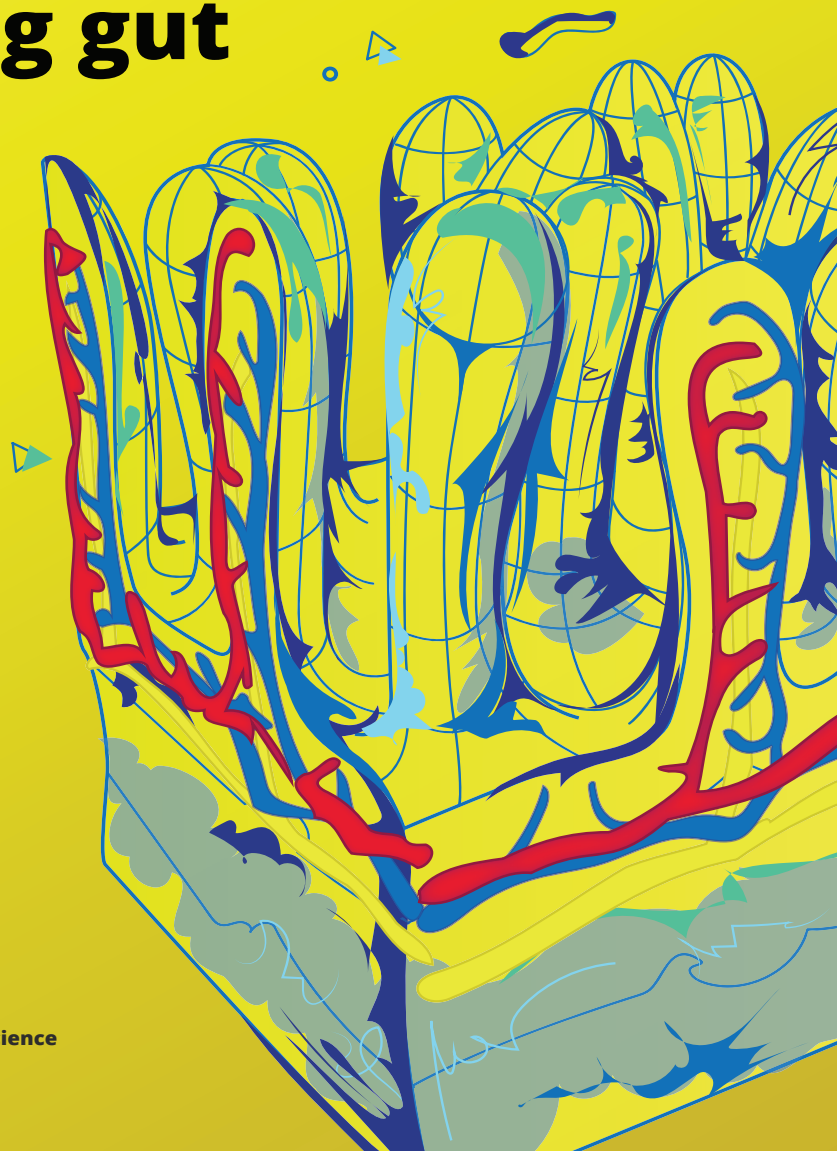
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## **THE VOLATILE POULTRY AND POLITICS!**

The Poultry industry is going through a very bad patch with disease conditions pressure and consistent lower prices for the farmer for eggs and chicken has led to untold sufferings and losses to the growers. Will the associations and Federation that are active in India come to the rescue of the farmers by leading government intervention in alleviating this sufferings? In several decades, the industry has never thought of a permanent solution for such crisis that happens periodically in the industry as soon as the situation recovers it soon forgotten as by gone.

The Clash of the Presidents-the first the world's most powerful President and the second the most dramatic President of USA and Ukraine had a showdown in live media telecast at White House. It was quite a tragedy, the way it happened. It looks like both the presidents have forgotten their principles and objectives of holding such responsible positions, which over it to their own population and the world as a whole. Instead of focusing on ending the wall, one wants to trade minerals from the victim country, and the other wants unconditional support in arms and laminations as a license to kill fellow human beings at all odds. None of them seems to be serious to end the war in the interest of the people, dying and starving population with complete collapse of all the decades of infrastructure. Vaporising in missile and bomb explosions. when and where is the end to this crisis and suffering? Instead of ending the war, the talk is about the world war -what an irony?

We are witnessed to a big global U-turn, when we see large number of EU ministers cozy in up to India as an alternative to serious threats from the new president of America. There are new shocking statements and sarcasm that is pushing the EU to the wall and making them nervous. Unfortunately, we are a witness to shaky and unwise political policies that are not supportive of lasting global peace, reduce human suffering, stop war, or even is their own economies and crisis.

If genuinely analysed, the Mahkumbh, is no less in breaking several worlds records-with 670 million people taking the holy dip. There was a minimum tragedy or mishaps, considering the scale of crowd, it is no small achievement by any global standard. The only explanation for the grand success of this is the divine blessings-and there is no other explanation.

Of late, there are several fairs, exhibitions, associations, and Federation is conducting and technical program very successfully. Some of the dominant exhibitors have under monopoly started dictating terms and conditions with reckless pricing, forcing all the participants to look for economical and more effective alternative. The recent success of Tezasvi, is a direct impact of such a popular demand to continue to conduct fares in regional and rural areas regularly.





## **IPPE 2025 Expo, The Global Poultry Industry Show in Atlanta, USA, was a Landmark Success - Ricky Thaper ([www.rickythaper.com](http://www.rickythaper.com))**

The International Production & Processing Expo (IPPE) 2025 collaboration of three trade shows, International Feed Expo International Poultry Expo and International Meat Expo, organised at Georgia World Congress Center, Atlanta, USA from January 28-30, 2025 was another remarkable edition, drawing attendees from more than 130 countries. IPPE 2025 expo reaffirmed its position as world's largest annual poultry & egg, meat & animal food industry event. IPPE 2025 hosted more than 1,300 exhibitors across 5,98,000 square feet of exhibit space, showcasing the latest technological advancements, services, and products focused on poultry. International participation was significant, with strong representation from Latin America, Canada, Europe and South East Asia and South Asia. Attendees explored cutting-edge poultry processing equipment, automated systems, health and nutrition products and advanced feed solutions, positioning the event as the premier destination for poultry innovations.

IPPE-2025 Expo fostered vital business collaborations, contract signing and strategic alliances, contributing to long-term industry growth. Attendees benefited from more than 80 learning sessions, covering key topics such as poultry health, sustainability, artificial intelligence, plant operations and industry innovations.

USSEC Showcased U.S. Soy's Role in Global Feed and Food Solutions. The U.S. Soybean Export Council (USSEC) played an important role at IPPE 2025, underscoring its extensive global reach and commitment to advancing animal nutrition through U.S. soy. Operating in over 80 countries across key regions, including Northeast Asia, Europe, South Asia, Sub-Saharan Africa, Southeast Asia, the Middle East, and North America, USSEC showcased its leadership in promoting sustainable soy-based solutions for the poultry, dairy and aquaculture sectors. At its dedicated booth, USSEC Board Members and USSEC Staff had been engaged actively with the trade visitors, offering insights into the latest industry trends and demonstrating how U.S. Soy contributes to improving global livestock feed systems. The team emphasized the vital role of soy as a major component of livestock feed, supplying essential protein and nutrients that enhance animal health and productivity.







Through strategic dialogues and collaborative sessions, USSEC highlighted its initiatives aimed at fostering international trade, strengthening value chains, and supporting food security. The organization's experts

shared real-world success stories from various regions, illustrating how partnerships with industry players drive advancements in feed technology, animal nutrition and sustainability. The Soy Excellence Center (SEC), an initiative by USSEC, which offers basic certificate courses in Poultry, Feed Milling, Aquaculture, and Soy Food & Beverage to enhance industry expertise and sustainability was also highlighted at USSEC booth. Interactions at the USSEC booth provided attendees with valuable information on U.S. soy's applications in modern feed formulations. By connecting global stakeholders, USSEC reaffirmed its commitment to creating a resilient and sustainable global food supply chain powered by U.S. Soy. Jim Sutter, CEO, USSEC, reinforced the industry's dedication to innovation and sustainability, emphasizing the role of U.S. Soy in meeting global food and feed demands.





Indian Equipment Manufacturing Companies Shine at IPPE 2025 Indian poultry equipment manufacturers have demonstrated remarkable potential in the global market, driven by their commitment to quality and cost-effectiveness - A few Leading Indian Equipment manufacturers, Gartech Equipments Pvt. Ltd and Dhumal Industries participated in IPPE 2025 Expo showcased their cutting-edge innovations tailored for modern poultry operations. The Indian Poultry Equipment Manufacturers robust engineering solutions and competitive pricing have positioned them as trusted partners for international poultry producers. The growing presence of Indian equipment manufacturers at prominent global exhibitions like IPPE Expo, USA and in other European and South American Countries, underscores their capability to deliver world-class products, strengthening India's reputation in the global poultry industry.



Indian Herbal and Pharmaceutical Companies Make an Impact at IPPE 2025 Indian pharmaceutical companies specializing in herbal and enzyme-based solutions are making significant strides in the international market - Some of major Indian Companies; Nurture Technology Pvt. Ltd., Lumis Biotech, Natural Remedies Private Limited, PVS Group of Companies, SK Biobiz Pvt. Ltd, Amorevet, Camlin Fine Sciences (CFS), Vinayak Ingredients Pvt. Ltd. participated at IPPE-2025. Through their booth, these Indian companies actively highlighted their advancements in natural feed additives, Herbal and poultry health products to delegates visiting IPPE Expo from around the Globe.



By addressing the rising demand for sustainable and safe animal nutrition, these companies are successfully tapping into global opportunities. Their efforts to combine



traditional herbal knowledge with modern scientific innovations have bolstered India's role as a key exporter in the animal health and feed supplement sector in International markets.



Technical presentations explored innovative solutions such as machine learning applications in chicken performance data and technology-driven customer support. IPPE 2025 provided an excellent platform for fostering industry collaboration and sustainable poultry breeding solutions. Highlighted educational programs included: International Poultry Scientific Forum, presentations on leading research on avian health, processing and nutrition, providing actionable insights for advancing poultry production.





Looking ahead with overwhelming positive feedback from participants and exhibitors, IPPE continues to be a vital platform for business growth, industry collaboration, and innovation. Organized by the U.S. Poultry & Egg Association, the American Feed Industry Association and the North American Meat Institute, IPPE sets new benchmarks in industry advancement. As the poultry and animal food sectors evolve, IPPE remains at the forefront of shaping the future, driving technological progress, and strengthening global partnerships. The industry looks forward to another successful edition in Atlanta at the Georgia World Congress Center for the IPPE-2026, January 27 – 29, 2026.





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## UT-VENBIOL GOLD

### MICROBIOLOGICAL FEED INGREDIENT

*Bacillus subtilis* DSM 32540 and  
*Bacillus amyloliquefaciens* CECT 5940

Striving for immunized GUT, Healthy Digestion  
**EXCELLENT PERFORMANCE**



Optimizes  
gut health



Prevents  
diseases



Enhance  
performance



### Benefits

01

Improve gut health by supporting growth of gut friendly bacteria

02

Improve feed efficiency and Performance of the bird

03

Induces resistance to environmental transition stress impact on gut health

04

Replacement of AGP free feed production along with disease prevention

05

Higher and faster return on investment

06

The best immuno modulator and enrich appetite of bird

07

Inhibits growth of pathogens like *Clostridium perfringens*, *Salmonella* species and *E. Coli*

08

Introduction of secondary metabolites strengthens Villi integrity for effective nutrients absorption

### Dosage

UT VENBIOL GOLD  
500gm/ metric ton  
of feed

### Composition

Preparation of *bacillus subtilis* DSM 32540, *bacillus amyloliquefaciens* CECT 5940 and calcium carbonate as a carrier with a minimum guaranteed concentration of  $2 \times 10^9$  CFU/gm of product.



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## ONE-STOP SOLUTION

For Management of Viral Diseases,  
to Potentiate Antioxidant Defense  
And Boost Immunity



# Defense UP

A HERBAL PREVENTIVE AGAINST VVND & AI

### USAGE

- To successfully prevents viral disease challenges and protect host from diseases outbreaks
- Increase immune-competence of the birds and thus limit the chance of infections
- Hepatoprotective and detoxicant constituents of Defense UP protect the liver of the birds against the damages caused by microbial toxins
- To buildup antioxidant and strong immune-defense
- To prevent mortality and improving survivability
- For immune-protection of progeny from vertically transmitted diseases



### FEED INCLUSION RATE

1 kg per ton of feed or as advised by poultry consultant



### PRESENTATION 25 kg



# PhytoVita 4in1 FORMULA

## Vitagene Regulator

(Antistress, Adaptogen, Antioxidant & Immune Modulator)

### USAGE

- ▶ Regulates vitagenes for improving natural defense system to combat infection and restoration of cellular homeostasis under stress conditions
- ▶ PhytoVita acts as a universal antioxidant which protects both aqueous and lipid phase of cells
- ▶ Specialized ingredient bioactives in PhytoVita delay free radical production thereby preventing cellular damage and mortality
- ▶ Specialized ingredient herbs in PhytoVita can withstand higher pelletization temperature

### Feed inclusion rate

200 gm per ton of feed or as advised by the nutritionist

### 4-in-1 Formula

PhytoVita @ 200 gm per ton of feed can replace Vitamin C, Antistress, Antioxidant and Immune Modulator from the feed.

### Presentation

10 & 25 Kg



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Vesper's



## VES-PHASE 1

### COMPOSITION PER 10KG

**Ves- phase 1** : A brilliant combination of Vitamins premix , minerals premix with phytase, lysine, methionine, lipolytic, toxinbinder, choline, acidifier, multienzyme, probiotics and growth promoters

## VES-PHASE 2

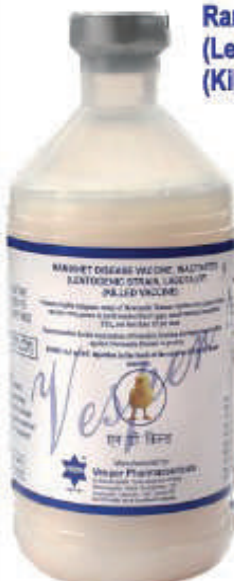
### COMPOSITION PER 10KG

**Ves- phase 2** : A brilliant combination of Vitamins premix , minerals premix with phytase, lysine, methionine, lipolytic, toxinbinder, choline, acidifier, multienzyme, probiotics and egg shell enhancers.

**Inclusion Rate per ton of feed:** 10 Kg/Ton of feed or as recommended by Veterinarian

Always keep the bag tightly closed in a cool, dark and dry place away from sun light

## ND Killed Vaccine



**Ranikhet Disease Vaccine, Inactivated (Lentogenic Strain, Lasota) (IP) (Killed Vaccine)**

500 ml (1000 Doses)

Contains highly antigenic strain of Newcastle Disease vaccine virus (Lasota Strain) vaccine virus grown in embryonated hen's eggs inactivated and emulsified  
EID 50, not less than  $10^4$  per dose.

Recommended for the vaccination of breeders, broilers and replacement pullets against Newcastle Disease in poultry.

Dose: 0.5 ml S/C injection in the back of the neck or IM in the breast or thigh muscles

## SPACIN

स्पासिन



**ORCHID SPA**

### COMPOSITION:

Each ml contains:-  
Enrofloxacin 10%  
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**Admin Office:** # 5-5-81/5/1, 5<sup>th</sup> Floor, Sai Baba Colony, Kukatpally, Telangana, - 500 072,  
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## Free Radicals, Inflammation and it's Resolution Through IMMUNOTECH™ FORTE

### Welcome to Nutrinomics...

"Nutrinomics, is the merging of the nutrition and health economics disciplines to assess the impact of nutrition on animal health and disease and to illustrate the health and economic aspects of specific changes in the daily nutrition and nutrition recommendations through the lens of cost effectiveness".

### Introduction

Poultry, due to its genetic, nutritional and managemental upgradation have become a source for quick productivity. But, skyrocketing conventional ingredients, fluctuating managemental conditions, and other quality parameters of rearing birds, farmer still expects compensation and extraordinary performance from chicken making it vulnerable to stressor. This stressor induces stress by generating free radicals inside the body which subsequently leads to loss in productivity and profitability.

In general, the stressor are classified into four groups: environmental, nutritional, technological and internal. The body as an inherent mechanism to neutralize these free radicals, but if the generation of free radicals becomes more than the antioxidant, it leads to cellular damages and inflammation.

The inflammation is a double-edged sword, it protects the body but also produces harmful effect on the body. The beneficial vs harmful effect of the inflammation depends upon the intensity and severity of inflammation.

### Inflammation and Oxidative stress: Two sides of the same coin

Inflammation and Oxidative stress are interdependent on each other. During inflammation activated macrophages

produces large amount of free radicals or reactive species (RS) to kill the microbes.

Inflammation is a pathological condition characterized by immune cell infiltration and release of reactive species by these cell, leading to tissue injury. RS generated by inflammatory cells (besides causing direct oxidative stress to remove pathogens) also stimulates pathways that lead to amplification of inflammation. RS-induced kinase leads to the generation of pro inflammatory cytokines and chemokines. Once triggered, these cytokines and chemokines bind to there respective receptor (such as platelet derived growth factor receptor) that are well established to generate RS. RS is thus both upstream and downstream of the inflammation cycle.

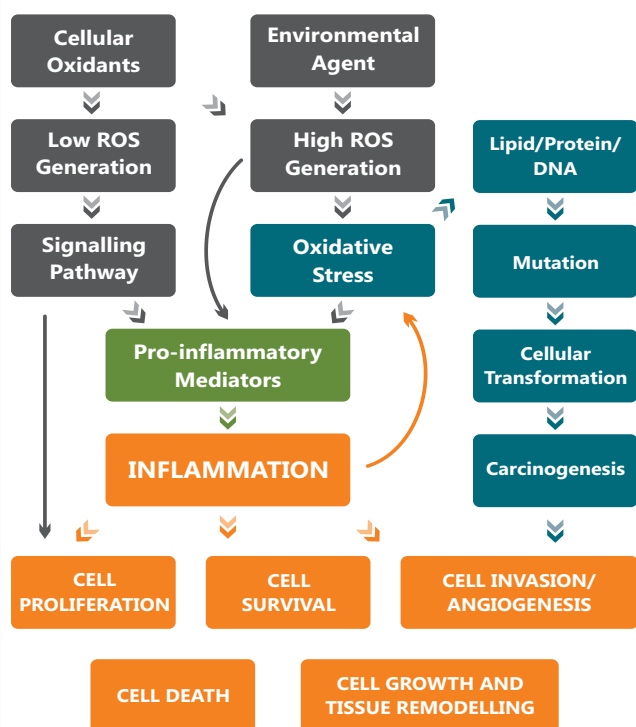
As the inflammatory process can induce oxidative stress, the oxidative stress can also induce inflammation through activation of multiple pathways. The reactive species hydrogen peroxide can induce inflammation through activation.

The reactive species generated regulate redox sensitive transcription factor such as Nuclear Factor Kappa B, this factor when in inactive form, localized in the cytoplasm of cells and are bound to cytosolic proteins like IκB. The



reactive species drive modification in I $\kappa$ B proteins, thus freeing NF- $\kappa$ B, which then translocate to the nucleus where it induces expression of several genes that express inflammatory proteins. Besides NF- $\kappa$ B, other transcription factor, such as Activator protein -1, hypoxia inducible factor, peroxisome proliferator activator receptor gamma,  $\beta$  canteen/Wnt and Nuclear factor-2 are also regulated by reactive species.

### Interrelationship between Inflammation & Oxidative stress

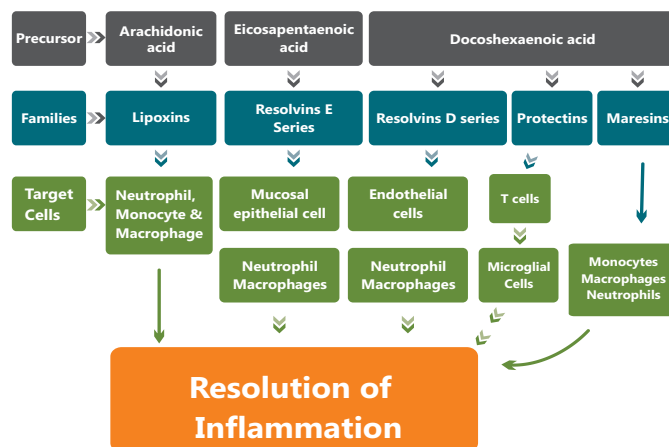


Ref: Dziubla, T., & Butterfield, D. A. (2016), Oxidative stress and biomaterials. pp 36

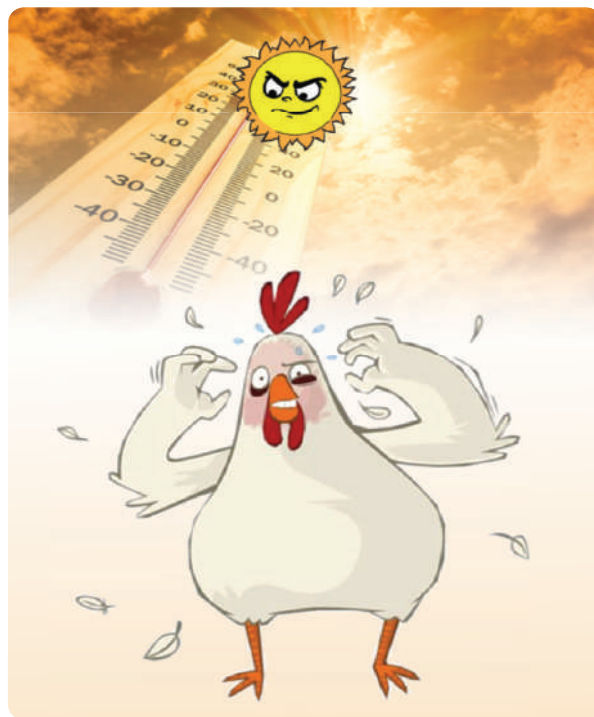
### Systemic Enzymes: Inflammation Resolver and Stress Reliever

Once inflammation sets in, it is also necessary to control the inflammatory process and bring the homeostasis. The body has inbuilt mechanism to resolve the inflammation and bring the homeostasis. Lipid mediators primarily derived from PUFA play a key role for resolution of inflammation. These mediator are known as pro-resolvin mediators. The  $\omega$ 3 and  $\omega$ 6 PUFAs under LOX mediated catalysis result in different kinds of lipid mediators. Among these, E (RvE) and D (RvD) series resolving are leading pro-resolvin mediators. LOXs (5,12 and 15 LOX) are key enzyme which catalyze the biosynthesis of SPMs and non specific inhibition of NSAIDs affect native inflammation resolution. While on other hand, serratiopeptidase and similar enzyme

indirectly assist resolution of inflammation as they do not affect LOX catalyzed SPMs production.



Ref: Buckley, C. D., Gilroy, D. W., & Serhan, C. N. (2014). Proresolving lipid mediators and mechanisms in the resolution of acute inflammation. In *Immunity* (Vol. 40, Issue 3, pp. 315–327). Cell Press.

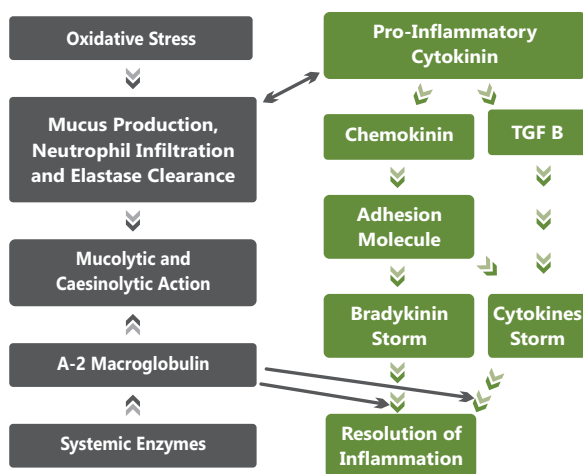


Systemic Enzymes such as Serratiopeptidase, Nattokinase, Bromelain and Papain are proteolytic in nature and has been shown to quite effective in resolving inflammation. The basic condition of the systemic effect of proteases administered orally is their absorption in an enzymatically

active form. The proteases will reach the mucosa of the small intestine with a pH of about 7. The systemic enzymes are absorbed from the digestive tract, into the systemic circulation, from where it penetrates all tissues. After absorption, certain parts of the proteolytic enzymes pass into the blood stream and the lymph where their enzymatic activity allows them to bind to natural antiproteases of which the most important are alpha-2-macroglobulin (a-2-M).

It reaches high concentrations in the inflamed tissues. They hydrolyse bradykinin, histamine, and serotonin thereby reduces inflammation and improves microcirculation and expectoration of sputum. Thus, it reduces capillary permeability and breakdown of proteins and exudates. They have an effect in regulating immune cell migration from lymph node to inflamed and injured tissue. Such a unique mechanism and broad substrate affinity suggest a role of the enzyme in bringing tissue to normal condition i.e., maintaining homeostasis.

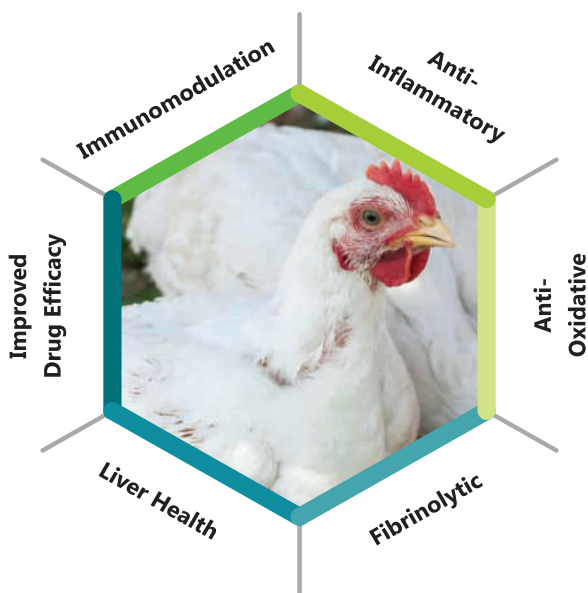
In normal inflammatory processes, an entire range of cytokines come into play. These cytokines can contribute to the development of imbalances in the inflammatory process. Lately, attention has been focused mainly on the autocrine cytokine TGF- $\beta$ , whose excessive formation plays a part in various immuno-pathological processes. Cytokines in plasma are bound (like proteases) to antiproteases, particularly to a-2-M, which has a linked systemic enzyme, a stable bond is formed, which in turn inactivates the cytokine. Consequently, the whole complex (protease-antiprotease-cytokine) is quickly eliminated by phagocytosis. Therefore, systemic enzymes can help to accelerate the clearance of increased levels of certain cytokines.



Ref: Sharma, C., Jha, N. K., Meeran, M. F. N., Patil, C. R., Goyal, S. N., & Ojha, S. (2021). Serratiopeptidase, A Serine Protease Anti-Inflammatory, Fibrinolytic, and Mucolytic Drug, Can Be a Useful Adjuvant for Management in COVID-19. *Frontiers in Pharmacology*, 12

## IMMUNOTECH™ FORTE: Potent Immunomodulator and Stress Reliever

IMMUNOTECH™ FORTE is a unique mix of systemic enzymes, antioxidants, and amino acid. The enzymes combination of Serratiopeptidase, Nattokinase, Bromelain, Papain, that stimulates immunity, reduces oedema, fights inflammation, had great fibrinolytic activity at cellular level, also have soothing effect on stomach and aids in digestion. The antioxidants present in IMMUNOTECH™ FORTE are Rutin, Vitamin E and Vitamin C, they scavenges free radicals, and relives body from oxidative stress.



## References :

- Hussain, T., Tan, B., Yin, Y., Blachier, F., Tossou, M. C. B., & Rahu, N. (2016). Oxidative Stress and Inflammation: What Polyphenols Can Do for Us? In *Oxidative Medicine and Cellular Longevity* (Vol. 2016).
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- Tiwari, M. (2017). The role of serratiopeptidase in the resolution of inflammation. In *Asian Journal of Pharmaceutical Sciences* (Vol. 12, Issue 3, pp. 209–215).
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## More Nutrients Don't Have to Cost More – NOVUS at VIV Asia



BANGKOK, THAILAND (February 14, 2025)  
– As the leader in intelligent nutrition, NOVUS is focused on helping poultry, pork and dairy animals reach their full potential through advanced technologies that deliver more. At VIV Asia, March 12-14 in Thailand, nutrition experts will share how producers can get more from their highest cost – feed.

During his presentation called More Nutrients Don't Have to Cost More, NOVUS Senior Technical Services Regional Manager David Torres will share how feed additives can transform broiler nutrition and tackle feed challenges.

“We all know that feed is the highest cost for producers. Ensuring the nutrients in feed are accessible to animals is vital for capturing a positive return on investment,” Torres says. “During this presentation, we'll talk about recent evidence on enhancing nutrient

utilization in feed ingredients to impact the cost of production. I'll also explain how shifts in soybean quality – which can vary widely – affect broiler performance.”

Torres will also explain how the age of a bird influences its nutrient digestion, and how producers, nutritionists and feed mills can unlock nutrients from feed through intelligent nutrition.

“Where broiler production is concerned, globally, the industry is facing evolving feed and genetic challenges. Producers need to educate themselves on the available solutions to ensure cost-effective performance improvements and long-term sustainability,” Torres says.

More Nutrients Don't Have to Cost More will begin at 10:00 a.m. (GMT+7) on March 13, 2025, in Room Jupiter 5, G Floor of the IMPACT Exhibition Center in Bangkok. The presentation is free to all VIV Asia attendees, but registration is required. Visit [novusint.co/vivasia2025](https://novusint.co/vivasia2025) to register.

Conference attendees who can't attend the presentation are welcome to visit the NOVUS booth (2-2980) anytime during VIV Asia to speak with representatives about how to get more from their feed, their animals, and their operations. For more information about NOVUS activities at VIV Asia, visit [novusint.com/novus-at-viv-asia-2025](https://novusint.com/novus-at-viv-asia-2025).

VIV Asia is the largest feed-to-food event in Asia, dedicated to the world of livestock production, animal husbandry and all related sectors. To learn more, visit [vivasia.nl](https://vivasia.nl).



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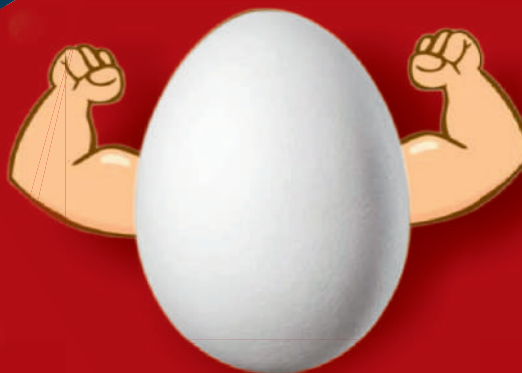
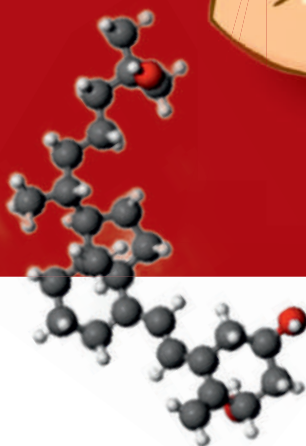
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**Strong  
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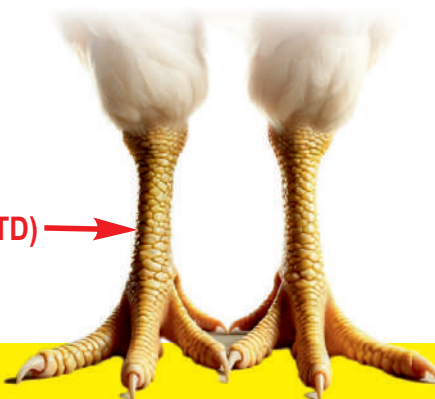


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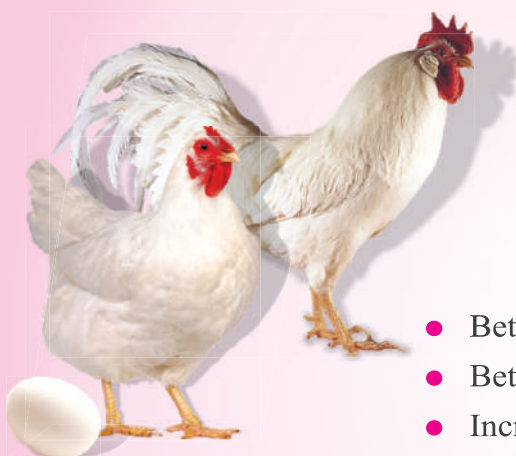




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## Avitech Nutrition showcases innovative animal nutrition solutions at 18th PDFA International Dairy & Agri Expo 2025



Avitech Nutrition participated in the 18th PDFA International Dairy & Agri Expo 2025, held from February 8th to 10th at the Cattle Fair Grounds in Jagraon, Ludhiana, Punjab. Recognized as one of the topmost exhibitions for the Indian dairy industry, the exhibition brought together key stakeholders, including farmers, milk producers, milk processing units, veterinarians, consultants, dairy feed millers, and animal nutrition companies.

Avitech Nutrition highlighted its commitment to advancing animal nutrition through its innovative product offerings. The company showcased a range of cutting-edge solutions from its PhyGeno division, including Genoliv, a plant-based liver stimulant designed to enhance liver function by optimizing its detoxification capacity.

Visitors also showed keen interest in Avitech's established product portfolio, including:

- **Avilact Pro** – A potent rumen alkalizer that neutralizes acids in the rumen and supports productivity.



- **Trisorb Alpha** – A complete toxin binder to safeguard livestock from mycotoxin-related risks.
- **Nutriox** – A powerful antioxidant formulation for nutrient protection against oxidation.
- **Performins** – A range of organic mineral monoglycinates that represent the latest technology in organic trace minerals.

The event served as a valuable platform for Avitech Nutrition to engage with industry experts, share knowledge, and explore new opportunities for collaboration. The positive response from attendees showed the increasing demand for innovative and science-based nutrition solutions in the dairy industry.

Avitech Nutrition remains committed to delivering high-quality, research-driven products to support the dairy industry's evolving needs and looks forward to continuing its contributions to livestock nutrition.





## Press Release from Andrés Pintaluba S.A. (APSA, Spain) & Bhuvana NutriBio Sciences (India)



Andrés Pintaluba S.A. (APSA) Spain and Bhuvana NutriBioSciences India organised an effective and successful Tech Meet for layer farmer at Rajahmundry, Andhra Pradesh on 29th Jan 2025 at Hotel Manjeera Sarovar about Nutritional Modulation for Better Immunity with Dr. SV Rama Rao as lead speaker.

This meeting was actively attended by more than 50 prominent Protein Producers (Layer Farmers), reputed veterinary nutritionists and consultants of Godavari district. The core topic was about “Nutritional Modulations for Better Immunity” and presented by Senior

scientist and renowned researcher Dr SV Rama Rao Sir. It provided meaningful information about nutrition, the use of different feed additives and ingredients for better immunity to birds and how to ensure strong immunity to combat disease challenges.

The session started by Dr. Nikhil Adagale, General Manager, Bhuvana NutriBio Sciences, with a warm welcome to all Protein Producers and Poultry Experts, followed by Dr. Manoj Sarma, Director of Bhuvana NBS, who delivered a keynote address to the gathering.

Dr. SV Rama Rao was welcomed to the stage and felicitated by Dr. Jyoti Kumar





Mainali, Area Manager- Asia of Andres Pentaluba S.A. and Dr. Santosh Ire, Director of Bhuvana NBS.

The technical session started with a key topic: “Nutritional modulation for better immunity”. The key note speaker Dr. S V Rama Rao had highlighted the basic of Immune response, concept of immunity and emphasis on nutrition and immunity. He has stressed more on heat stress nutritional modulation. There is good response from the audience and several questions and answers has been cleared by Speaker Dr. S V Rama Rao Sir.

Following Dr. Rama Rao presentation, Dr. Manoj Sarma addressed, “Mitigation of Current infection challenges through Biosecurity in poultry”. Dr. Sarma



elaborated principles of Biosecurity, different sources of contamination in poultry farms and measures to prevent during production. This topic was also appreciated by the audience as a need of the hour in recent crisis.

Lastly, Mr. Ibrahim Shaikh, Business Manager, Andhra Pradesh, expressed appreciation for the strong attendance despite participants’ busy schedules and offered a vote of thanks to all dignitaries

The session concluded with a grand feast dinner.

Andrés Pentaluba S.A., Spain and Bhuvana NutriBio Sciences thanked everyone for all kinds of support.





**NATIONAL EGG CO-ORDINATION COMMITTEE**  
**DAILY/MONTHLY EGG PRICES SUGGESTED BY NECC AND PREVAILING PRICES AT VARIOUS PRODUCTION CENTRES (PC) AND CONSUMPTION CENTRE (CC)**  
**FOR THE MONTH OF FEBRUARY - 2025**

Name Of Zone / Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average	
NECC SUGGESTED EGG PRICES																																	
Ahmedabad	490	490	490	490	470	470	470	470	470	470	470	470	470	470	470	-	450	450	455	-	465	470	475	480	485	-	485	0	0	0	0	472.6	
Ajmer	445	430	430	430	430	430	430	430	430	435	-	435	425	425	415	415	415	415	420	435	435	443	460	466	466	472	475	475	0	0	0	0	437.48
Barwala	442	442	420	415	415	415	415	415	420	430	430	430	430	430	430	415	415	415	418	432	434	442	457	464	464	472	475	475	0	0	0	0	434.18
Bengaluru (CC)	535	535	515	515	495	495	495	495	495	495	495	495	495	495	495	495	495	470	470	475	480	485	490	495	500	500	-	0	0	0	0	496.3	
Brahmapur (OD)	485	480	480	470	465	455	455	455	460	467	467	452	452	425	425	435	435	435	420	435	447	460	470	480	490	490	490	495	0	0	0	0	459.82
Chennai (CC)	560	560	540	540	520	520	500	500	500	500	500	500	500	500	500	500	500	475	500	500	500	500	500	500	500	500	500	500	0	0	0	0	507.68
Chittoor	553	553	533	533	513	513	493	493	493	493	493	493	493	493	493	493	493	468	493	493	493	493	493	493	493	493	493	493	0	0	0	0	500.68
Delhi (CC)	480	470	460	450	450	450	450	450	450	450	450	450	450	450	450	450	450	440	440	440	450	460	472	477	477	490	490	495	0	0	0	0	458.96
E.E.Godavari	490	465	465	465	452	452	452	443	443	445	445	445	445	445	445	445	445	425	410	420	430	440	450	460	470	480	480	480	0	0	0	0	454.25
Hospet	485	485	465	465	445	445	445	445	445	445	445	445	445	445	445	445	445	420	420	425	430	435	440	445	450	450	-	0	0	0	0	446.3	
Hyderabad	480	460	460	460	440	440	440	440	440	440	440	440	440	440	440	440	440	410	410	415	420	425	430	435	440	445	445	445	0	0	0	0	439.29
Jabalpur	495	-	485	475	475	460	450	450	450	455	455	455	440	440	440	440	440	440	440	440	440	440	440	455	455	460	460	460	0	0	0	0	453.15
Kolkata (WB)	530	530	530	520	520	510	510	510	515	515	490	490	490	490	490	490	490	480	480	490	500	510	520	530	540	545	545	550	0	0	0	0	511.07
Ludhiana	440	440	440	430	420	420	420	420	420	428	431	431	431	431	431	431	420	420	424	434	434	445	461	463	463	472	474	0	0	0	0	0	435.5
Mumbai (CC)	545	535	525	525	505	505	505	505	505	505	505	505	505	505	505	505	505	485	475	480	485	490	495	500	505	510	510	510	0	0	0	0	505
Mysuru	535	535	517	517	497	497	497	497	497	497	497	497	497	497	497	497	497	470	470	475	480	485	490	495	500	500	500	475	0	0	0	0	496.61
Namakkal	505	505	485	485	465	465	465	465	465	465	465	465	465	465	465	465	465	440	465	465	465	475	480	485	490	490	460	0	0	0	0	472.5	
Pune	545	535	525	525	505	505	500	495	495	495	495	495	495	495	495	485	485	485	475	480	485	490	495	501	506	510	510	510	0	0	0	0	500.61
Raipur	505	495	480	480	460	450	450	450	450	450	455	455	445	440	440	440	435	435	435	435	437	-	440	450	460	465	465	465	0	0	0	0	454.15
Surat	510	500	500	500	490	490	490	490	480	480	480	480	480	480	470	470	-	470	470	470	-	475	475	480	485	490	-	490	0	0	0	0	483.8
Vijayawada	500	500	500	500	500	500	500	500	475	475	475	450	450	450	450	450	450	420	410	430	440	450	465	475	480	485	485	485	0	0	0	0	468.75
Vizag	505	505	490	490	470	470	470	455	460	465	465	465	465	465	465	465	465	435	435	437	440	445	450	460	470	480	482	482	0	0	0	0	466.11
W.Godavari	490	465	465	465	452	452	452	443	443	450	455	455	455	455	455	455	455	425	410	420	430	440	450	460	470	480	480	480	0	0	0	0	454.25
Warangal	482	462	462	462	442	442	442	442	442	442	442	442	442	442	442	442	442	412	412	417	422	427	432	437	442	447	447	447	0	0	0	0	441.29
Prevailing Prices																																	
Allahabad (CC)	514	514	510	505	495	490	486	486	481	486	490	490	490	486	486	486	486	486	486	495	495	500	500	510	514	514	514	510	0	0	0	0	496.61
Bhopal	480	480	460	460	460	450	450	450	450	455	-	460	460	440	430	430	430	430	430	440	445	445	455	470	470	470	470	470	0	0	0	0	453.33
Indore (CC)	475	460	460	460	460	460	450	450	450	460	460	460	450	450	440	440	440	430	430	-	440	450	460	465	470	470	460	0	0	0	0	0	454.26
Kanpur (CC)	500	500	486	486	471	471	471	471	471	471	471	471	462	462	462	462	462	462	462	476	476	476	495	495	514	510	510	0	0	0	0	0	479.86
Luknow (CC)	516	516	500	500	500	500	500	500	500	483	483	483	483	483	483	483	483	483	483	500	500	500	517	533	533	533	533	533	0	0	0	0	501.57
Muzaffarpur (CC)	505	500	500	480	480	480	480	480	480	485	485	485	485	475	475	475	470	470	475	490	490	501	520	525	525	533	535	535	0	0	0	0	493.54
Nagpur	505	495	495	480	470	460	460	460	450	450	-	455	455	455	445	445	440	440	440	430	435	435	455	455	460	465	465	465	0	0	0	0	458.15
Patna	505	500	500	480	480	480	480	480	480	485	485	485	485	475	475	475	470	470	475	490	490	501	520	525	525	533	535	535	0	0	0	0	493.54
Ranchi (CC)	514	510	505	500	490	490	486	486	486	486	490	490	486	486	481	481	481	476	476	486	495	500	514	519	524	529	533	533	0	0	0	0	497.61
Varanasi (CC)	507	507	490	483	477	477	467	467	473	483	483	483	483	483	473	473	473	473	473	483	490	493	500	510	517	523	523	523	0	0	0	0	488.93

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## Perspectives on Thailand's Poultry Industry

BANGKOK, THAILAND (26 February 2025) – Poultry demand in Thailand is on the rise with demand increasing both domestically and in the export market. Rabobank Global Poultry Quarterly recently reported record highs – 320,000 metric tons in the third quarter – for poultry exports out of Thailand.

Thailand is growing as a regional commerce hub among Asia Pacific countries. It has one of the most advanced broiler production sectors, with levels of efficiency and overall performance equal to or exceeding that of most other countries in the region.



With optimism rising along with demand, Nannapas Moonsap, Sr Regional Sales Manager for Thailand and Indochina; Pasakorn Piyaaram, Technical Services Manager for Thailand and Indochina; and Permsak Thanawang, Sales Manager for Thailand recently shared their perspective on the industry leading up to the region's largest animal agriculture expo, VIV Asia 2025, taking place 12-14 March in Bangkok.

### Taking advantage of opportunities



The greatest opportunity for poultry producers in Thailand lies in enhancing production efficiency and sustainability to meet global demand while capitalizing on the country's strengths in poultry processing and exports. "Specifically,

Thai producers have a competitive edge in tailor-made chicken meat cuts, making them attractive to high-value export markets," says Pasakorn.

Nannapas says Thailand's poultry sector is also benefiting from the country's Free Trade Agreements (FTAs), which have expanded market access and enhanced competitiveness. "Chicken meat is currently Thailand's third-largest agricultural export, reinforcing its status as a major global supplier," she says. The domestic market also presents growth opportunities, driven by economic recovery and increasing consumer demand.

Technological advancements and improved farming practices are helping to reduce production costs for those who make these options a priority. "By integrating precision nutrition, value-added product development, and strong disease management, they say Thai poultry producers can maintain their global competitiveness," Nannapas says.

### Partnering for profitable production

Understanding the opportunities is only half of the equation to creating sustainable, profitable production. The other half is knowing the challenges. All three of the poultry team say production costs – the cost of feed in particular – hinder meeting financial goals. This is why poultry producers must look beyond raw feed to optimize bird health, development and growth.

"Achieving good bird, farm, and gut health requires operational excellence and attention to detail," Nannapas says. "A combination of quality nutrition, veterinary guidance, and increased consideration of farm and bird management can help to ensure birds have



the best possible chance of meeting maximum potential.”



Permsak says offering science-based, tailored solutions with repeatable results can mean the difference between success and failure. “Our specialty feed additive portfolio emphasizes high-quality organic trace minerals and potent enzymes

created to address feed cost, meat quality, gut health, and overall performance,” he says. “Combined with our expert team both locally and around the world, and our collaboration with world-class experts, we help our customers overcome these challenges.”

#### Providing custom solutions

Technical service is an invaluable part of a poultry production partnership. NOVUS’s technical expertise empowers poultry producers through intelligent nutrition – the combination of experienced people and smarter solutions. “By providing custom-fit recommendations and leveraging global expertise, we help optimize feed efficiency, gut health, and overall productivity,” Permsak says.

A perfect example is a recent collaboration with a customer in Thailand who was managing high footpad dermatitis in their flock (with rates above 8.5%). “After conducting a trial comparing MINTREX® Zn, Mn, and Cu Bis-Chelated Trace Minerals with a competitor’s product, the customer saw a significant reduction in footpad dermatitis (below 5%) and increased profitability,” Nannapas says.

“As a result, they adopted MINTREX® Zn, Mn, and Cu as a long-term solution.”

Pasakorn says through tech tools, field trials, data analysis, and customized strategies the NOVUS technical services team helps producers maximize resource utilization, reduce costs, and ensure sustainable growth. “We have tools that allow customers to measure trypsin inhibitor in soybean meal in real-time accurately,” he says. “This innovation helps our customers improve feed quality and we can support them by optimizing costs through solutions like CIBENZA® Enzyme Feed Additive.”

#### What’s to come

Thailand isn’t the only country in Asia Pacific with producers ready to take their farms to the next level. Nannapas says those in Cambodia, Laos, Myanmar and Vietnam have a growing trend in semi-intensive and intensive production, but the traditional/backyard poultry production system remains the common production system.

“Those producers are looking to exchange ideas and learn from Thai feed millers, veterinarians /consultants, experts and KOLs to understand the steps necessary to meet the growing demand for high-quality poultry meat and eggs,” she says. “They really use Thailand as a benchmark.”

Industry professionals from throughout Asia and other parts of the world will converge on Thailand for VIV Asia 2025. Nannapas, Pasakorn and Permsak will be at the NOVUS booth, 2-2980, to share insights on how to help birds meet their full potential. For more information on NOVUS at the event, visit [novusint.com/novus-at-viv-asia-2025](https://novusint.com/novus-at-viv-asia-2025).



# Biosecurity measures at poultry farms for control and prevention of zoonotic disease of poultry

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## Introduction:

COVID 19 pandemic has created an alarming need in the global community recognizing the significance of biosecurity and quarantine. Poultry farming has involved need for biosecurity and quarantine protocols since a very long time in order to prevent the outbreak of zoonotic diseases. An integrated biosecurity program is an application of sound and rational business-specific concepts that monitors disease status and continuously assesses the operations of poultry farms with the goal of minimizing disease. Some of the commonly occurring poultry diseases like avian Influenza, new castle disease, salmonella etc are zoonotic in nature, i.e. they may be transmitted to humans, and can potentially cause serious public health risks.

If the biosecurity measures are not implemented properly, the risk for occurrence of disease will be high resulting in severe economic losses to the poultry industry. To avoid morbidity and/or mortality on farms, it is imperative to effectively implement hygienic measures to prevent the spread of pathogens. Disease can spread into and between the farms and in humans due to lack of basic management and disease control strategies. The two most common strategies to prevent the introduction of diseases and their spread include the concepts of bio-exclusion (i.e., keeping infectious agents from entering the farm) and bio-containment (i.e., keeping infectious agents from leaving). The main tool used globally to combat the occurrence of deadly diseases is the enforcement of biosecurity.

According to the World Organization for Animal Health (OIE) biosecurity is defined as the implementation of measures to reduce

the risk of the introduction and spread of disease agents. Biosecurity measures play a vital role for quality production of poultry. Both commercial and backyard poultry needs such measures as they have close interaction with humans. Currently, the challenge to enhance biosecurity is very real.

## Objective of Biosecurity practices:

Infectious agents like parasite, fungi, protozoa, viruses and bacteria are a serious threat to poultry health which in turn leads to morbidity and mortality. Biosecurity aims to overcome the indirect and direct threat of diseases to poultry through effective control measures like cleaning, disinfection, traffic control and segregation. The main objectives of biosecurity practices are:

1. Keeping disease risk at the farm as low as possible to reduce stress on the animal's immune system lowering the risk of disease.
2. Keep out highly contagious diseases like Newcastle Disease (RD), Infectious Bronchitis (IB), Gumboro Disease (IBD), etc.
3. Reduce pathogens like Salmonella and E. coli, etc
4. Control vector and eliminate immunosuppressive agents
5. Sanitization of equipment and supplies
6. Improve the health of the flock
7. Reduce mortality losses
8. Increase profitability

## Preventive measures:

The existence of zoonotic diseases could be a risk factor not only for animals but for the human population as well. Thus, biosecurity protocols are designed to prevent hazards to animals and the food supply chain, from the



point of production to the point of consumption. Risk management can be divided mainly into: A-Prevention B-Eradication

There may be different preventive measures depending on places or legislation. According to the Food and Agriculture Organization of the United Nations (FAO), these are some of them:

1. Restricting access by using fences or enclosures and avoiding all contact with outside birds to following hygienic actions with outside visitors.
2. Keeping areas clean by disposing of waste, using disinfected boots and clothes, and removing sick or dead animals, among other things.
3. Keeping equipment clean, the poultry equipment should not be shared with other farms and metal cages are preferred as they are more effectively disinfected.
4. Reporting early signs of a problem by detection and swift reporting are very beneficial since they may help to stop the spread of the infection.
5. Vaccinating helps to increase the resistance of poultry to disease but it can't guarantee that infection won't occur. It should always be paired with other preventive measures to have a solid biosecurity plan.

“Eradication, elimination, and/or control of foodborne and zoonotic pathogens present a major challenge to the poultry industry” because, even though antimicrobials can be used to mitigate infections, some may not be effective and the disease can prevail. The FAO expresses that disease control can avert poultry mortality, low production performance, financial losses, and, in the case of Salmonella, human infection.

Three levels of biosecurity: Biosecurity measures are structured in a hierarchical manner with three levels, each influencing the overall cost and effectiveness of the program. These levels typically include

physical barriers, operational protocols, and management practices aimed at safeguarding poultry health and productivity

#### Conceptual Biosecurity:

- ✓ Conceptual biosecurity includes selecting a operation in a particular area to keep different kinds of poultry apart, lower its biodensity, and prevent contact with free-living birds. A program's ability to sustain ideal production levels is significantly impacted by how farms are positioned in relation to public roadways and service facilities like hatcheries, feed mills, and processing plants. Conceptual biosecurity decisions have an impact on all ensuring disease prevention and control initiatives.
- ✓ It is ideal to establish a farm in a remote location, at least three kilometers from the closest poultry farm for a breeding farm and 1.6 kilometers from a commercial layer and broiler farm.
- ✓ When it comes to breeders, the farm should be situated distant from the major road ways that could be utilized to transport backyard and commercial poultry.
- ✓ Keep a sufficient distance between breeders and facilities like hatcheries and feed mills as well as grow-out farms.

#### Structural Biosecurity:

- ✓ The second level of biosecurity includes considerations like farm layout, erection of fences, construction of drainage, all-weather roads, equipment for decontamination, bulk feed installations, restrooms, keeping rats and wild birds out, and interior housing finishes.
- ✓ To prevent rodent and wildlife activities, the area surrounding the building must be kept three meters clear of any vegetation.
- ✓ Examine the water supply for pathogen load, bacteria, minerals, and chemical contaminants.
- ✓ Structural biosecurity can be enhanced in the intermediate term with appropriate

capital investment. When a new disease or an epornitic of a devastating sickness, like highly virulent avian influenza, emerges, remedial treatment may frequently be too late.

#### Operational Biosecurity:

The third level consists of standard management practices to prevent infections from entering and spreading throughout a enterprise. In the event of a disease emergency, these activities can be quickly adjusted. Effective operational biosecurity is facilitated by regular protocol reviews, involvement from all labor and management levels, and proper flock health and immunity monitoring.

Operational manuals incorporating emergency plans should be developed for day to day activities carried out in feed mills, hatcheries, breeding and grow out facilities.

- ✓ Proper decontamination and disinfection of equipment, houses, etc. following depletion of flocks.
- ✓ In breeder farms, all workers and visitors should shower and use clean farm cloths to prevent cross contamination between facilities.
- ✓ Maintaining a record of visitors, including name, company
- ✓ purpose of visit previous farm visited and next farm to be visited.
- ✓ In case of breeders, no vehicles, or equipments should be allowed within the farm area from the time of delivery of flock until depletion.
- ✓ In commercial broilers units a minimum inter flock interval of 2 weeks is recommended.
- ✓ Effective pest management programme through biological, mechanical and chemical means.

Appropriate disease detection and proper vaccination schedules should be implemented.

- ✓ In case of small-scale egg production units,

follow all-in-all-out. If this is not possible, pullets should obtain from a source free of vertically transmitted diseases.

- ✓ Recycled egg packing material, plastic egg trays. etc. It should be decontaminated at the point of entry to the farm.
- ✓ Routine disease monitoring procedures like post mortem examination of dead birds and periodic serum antibody assays to determine the immune status of flocks is necessary.
- ✓ Regular culling of unhealthy, unproductive and diseased birds.

#### Basic principles of biosecurity:

- 1) Isolation
- 2) Sanitation
- 3) Traffic control

#### Biosecurity measures to be applied:

Biosecurity is an integrated approach and it has three major components i.e. isolation, sanitation and traffic control. The confinement of animals in a regulated setting is referred to as isolation. In addition to keeping birds within, a fence also keeps other creatures out. Separating birds according to age group is another example of isolation.

Sanitation includes keeping farm workers clean as well as disinfecting items, people, and equipment that enter the farm.

Traffic control includes both the traffic onto the farm and within the farm. By following these three basic principles of biosecurity, the producer should effectively be able to minimize any preventable disease outbreaks. Consequently, these biosecurity measures can be accomplished by:

- Restricting entry of visitors in the farm is an important component of biosecurity programme. Unnecessary movement limits risk of spreading diseases into flocks. Those persons who work or had recent working with poultry should be guided with proper disinfecting and hygienic protocols.



- Restricting entry of vehicles in the farm grounds and properly cleaning and disinfecting before entering because several chicken diseases are known to be transmitted by transportation. Many vehicles enter the farm for a variety of works, such as transporting feed from mills, chicks to the farm etc. Only vehicles that are required should be permitted to enter, and the entry point should be properly disinfected.

- Regular cleaning and sanitation of the farm is one of the key biosecurity measures for the prevention and control of disease. Regular cleaning and disinfection of equipments, vehicles, farm floor, water, etc. for maintaining farm hygiene and preventing spread of pathogens. Disinfectants like chlorine dioxide and peracetic acid are the most commonly used disinfectants. Common disinfectant used in foot baths are mainly potassium permanganate and calcium oxide (lime) powder. Other disinfectants used are phenols, hypochlorites (chlorine), iodophors (iodine), quaternary ammonium, formaldehyde gas, chlorhexidine, formaldehyde powder and alkali.

- Restrict animals away from poultry farm by employing fences and enclosures which creates a barrier between clean areas where poultry are kept and outside environment. Various wild birds— resident fowl or migratory birds can be the carriers of poultry pathogens. Therefore, they should have no contact with the flock through the use of screens or overlying nets.

- Food and water management are recognized as a biosecurity hazard to poultry by FAO, so birds must have fresh, potable and treated water every time. And food supplied must be in clean containers.

- Disease prevention by pest and rodents control lessen the possibility of rodents bringing diseases to the farm. Rodents should be kept away from initial stage of farming as it is difficult to remove them once the farm is

infested. Microorganisms can be carried and dispersed by rats, mice, and insects like flies and darkling beetles. These pests may be disease vectors in addition to annoying and stressing the birds. The pests can be both mechanical carrier and as biological vectors.

- Restrict contact with non-commercialized birds to avoid spread of disease. Poultry exhibitions, fanciers, fairs, backyard flocks and marketplaces are examples of non-commercial sources of poultry that are frequently exposed to both healthy and sick flocks of birds and are never fully vaccinated against the major poultry diseases. The introduction of non-commercial birds should be prohibited due to their exceptionally high-risk contacts.

- Avoid visits to live markets and routinely inspect the flock as poultry trading is considered as a risk factor for various infectious diseases. Therefore, it is recommended that poultry farmers stay away from live bird markets and other trading locations. Nonetheless, in many regions of India, this practice is still in use. To check mortality, flocks should be inspected on a regular basis and disposed of as soon as possible.

- Disposal of dead birds, biomedical wastes and poultry manure is important to carefully and promptly dispose of dead birds to prevent them from coming into contact with healthy bird. Removing the source of contaminated foci from poultry and poultry workers will be beneficial. Dead birds are disposed of by rendering, burial, or incineration. In order to properly dispose of some biomedical wastes, like empty vials, swabs, needles, syringes, hatchery waste, etc., The Bio-Medical Waste (Management & Handling) Rules, 1998 under Environment (Protection) Act, 1986 should be referred. Before being utilized as fertilizer, poultry excrement needs to be left undisturbed for at least ninety days. Poultry dung and other poultry by-products, such as feathers, should not

longer be used as fertilizer in agriculture and aquaculture or as untreated feed for fish and pigs. There is a significant danger of infection spread when untreated poultry dung is used as fertilizer.

- General husbandry practices involve protecting the healthy and unstressed birds with an active metabolism and effective immune system. Nutritionally balanced diet, maintaining a comfortable living environment and minimizing fear and anxiety in the birds will help the bird's natural protective mechanisms to function optimally.
- Vaccination and medications stimulate the immune system in such a way that improves the immunological response when the bird is later exposed to a pathogen. The birds should be provided certain medicines and essential vaccines regularly, which can boost immunity. In poultry farming, each farm must be aware about the diseases that circulate in the region where they are located and vaccinate to prevent them. Vaccination is a vital biosecurity process that every farm must implement to control serious infectious diseases such as Marek's Disease, Newcastle

disease, or Avian Infectious Bronchitis, among others.

- Isolation and quarantine of new birds is one of the most common method to avoid disease transmission is by contact of a susceptible bird with an infected bird. This can occur within the flock or from flock to flock by the introduction of new livestock. It is necessary in a separate place and enclosure so that infectious agents which may be there in the newly introduced birds may be detected before introduction of these birds with other flocks.
- Road Maintenance should be done regularly to facilitate cleaning and prevent the spread of microbes by vehicles and footwear.
- Separation of Areas like store feed, litter, and equipment from live bird zones to prevent cross-contamination and maintain biosecurity standards.
- Litter Management should be efficiently done in a dry condition (around 20%-30% moisture content) and ensuring good ventilation in the poultry house helps regulate microbial growth.





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Hyderabad	99	101	101	103	108	111	114	114	114	114	104	104	104	107	112	117	117	112	117	122	125	127	127	127	120	120	120	120	115	109	109	103
Karimnagar	99	101	101	103	108	111	114	114	114	114	104	104	104	107	112	117	117	112	117	122	125	127	127	127	120	120	120	120	115	109	109	103
Warangal	99	101	101	103	108	111	114	114	114	114	104	104	104	107	112	117	117	112	117	122	125	127	127	127	120	120	120	120	115	109	109	103
Mahaboobnagar	99	101	101	103	108	111	114	114	114	114	104	104	104	107	112	117	117	112	117	122	125	127	127	127	120	120	120	120	115	109	109	103
Kurnool	99	101	101	103	108	111	114	114	114	114	104	104	104	107	112	117	117	112	117	122	125	127	127	127	120	120	120	120	115	109	109	103
Vizag	105	105	97	97	102	104	107	107	107	107	107	107	107	117	127	127	127	127	132	132	132	132	132	127	127	127	127	127	117	112	112	106
Godavari	106	108	108	108	113	113	116	116	116	116	111	111	111	121	131	131	131	131	136	136	141	141	141	141	141	136	136	136	126	120	120	114
Vijayawada	106	108	108	108	113	113	116	116	116	116	111	111	111	121	131	131	131	131	136	136	141	141	141	141	141	136	136	136	126	120	120	114
Guntur	106	108	108	108	110	110	115	115	115	115	110	110	110	120	130	130	130	130	135	135	137	137	137	137	127	130	130	120	118	118	112	
Ongole																																
Namakkal	98	98	98	101	101	101	101	101	101	101	101	101	101	101	101	101	98	98	98	98	98	102	102	104	104	106	106	106	100	100	100	98

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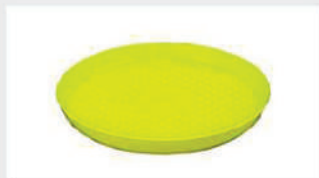
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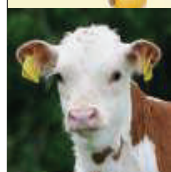
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# Coccidiosis in Broiler

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## Introduction:

Coccidiosis is caused by protozoan parasites in the genus *Eimeria*. These parasites are host-specific, and many species occupy a specific segment of the intestinal tract. There are nine species of coccidia described in chickens, and several other species have been described in turkeys, ducks, and geese. Coccidiosis may be one of the most common and costly diseases in the poultry industry. The costs are associated with prevention, control, loss of performance, and mortality, especially when the disease is complicated by other infectious agents such as *Clostridium perfringens*. Vaccination, preventative medication, and good management practices can help control the disease.

The disease course is rapid (4–7 days) and is characterized by parasite replication in host cells with extensive damage to intestinal mucosa. Coccidia in poultry are generally host-specific, and the different species infect specific portions of the intestine.

## Etiology:

Coccidiosis is a parasitic disease of the intestinal tract of animals caused by coccidian protozoa. The disease spreads from one animal to another by contact with infected feces or ingestion of infected tissue. Diarrhea, which may become bloody in severe cases, is the primary symptom. Most animals infected with coccidia are asymptomatic, but young or immuno-compromised animals may suffer severe symptoms and death.

Coccidia are almost universally present

in poultry-raising operations, but clinical disease occurs only after ingestion of relatively large numbers of sporulated oocysts by susceptible birds (those that are immunosuppressed and/or with concurrent disease). Both clinically infected and recovered birds shed oocysts in feces, which contaminate feed, dust, water, litter, and soil. Oocysts may be transmitted via equipment and personnel (eg, shoes) as well as the presence of insects (flies) and rodents. Fresh oocysts are not infective until they sporulate; under optimal conditions (21°–32°C) with adequate moisture and oxygen, this requires 1–2 days. The wet litter and the heat in premises favour of the sporulation and therefore, the outbreak of coccidiosis. The prepatent period is 4–7 days. Sporulated oocysts may survive for long periods, depending on environmental factors. Oocysts are resistant to some disinfectants commonly used around livestock but are killed by freezing or high environmental temperatures.

Pathogenicity of coccidiosis is influenced by host genetics, nutritional factors, concurrent diseases, age of the host, and species of the coccidium. *Eimeria necatrix* and *E. tenella* are the most pathogenic in chickens, because schizogony occurs in the lamina propria and crypts of Lieberkuhn of the small intestine and ceca, respectively, and causes extensive hemorrhage.

Protective immunity usually develops in response to moderate and continuing infection. True age-related immunity does not occur, but older birds are usually more resistant than young birds because of earlier exposure to infection.

## Clinical finding and lesions:

Signs of coccidiosis range from decreased growth rate to many sick birds, with severe diarrhea and high mortality. Decreased feed and water consumption, weight loss, and decreased egg production, may accompany outbreaks. The lesions are almost entirely in the intestinal tract.

## Chicken:

*E. tenella* infections are found only in the ceca and can be recognized by accumulation of blood in the ceca. Cecal cores, which are accumulations of clotted blood, tissue debris, and oocysts, may be found at necropsy in birds surviving the acute stage.

*E. necatrix* produces major lesions in the proximal and mid portions of the small intestine. Small, white spots, usually intermingled with rounded, bright- or dull-red spots of various sizes, can be seen on the serosal surface. This appearance is sometimes described as “salt and pepper.” The white spots are diagnostic for *E. necatrix* if clumps of large schizonts can be demonstrated microscopically. In severe cases, the intestinal wall is thickened, and the infected areas are dilated to 2–2.5 times the normal diameter. The lumen may be filled with blood, mucus, and fluid. Fluid loss may result in marked dehydration. Although the damage is in the small intestine, the sexual phase of the life cycle is completed in the ceca. Oocysts of *E. necatrix* are found only in the ceca. Because of concurrent infections, oocysts of other species may be found in the area of major lesions, complicating the diagnostic process.

*E. acervulina* is the most common cause of infection. Lesions include numerous whitish, oval or transverse patches in the upper half

of the small intestine, which may be easily distinguished on gross examination. The clinical course in a flock is usually protracted and results in poor growth and slightly increased mortality.

*E. brunetti* is found in the lower small intestine, rectum, ceca, and cloaca. In moderate infections, the mucosa is pale and disrupted but lacking in discrete foci, and it may be thickened. In severe infections, coagulative necrosis and sloughing of the mucosa occurs throughout most of the small intestine.

*E. maxima* develops in the small intestine, where it causes dilatation and thickening of the wall, petechial hemorrhage, and a reddish orange/pink viscous fluid exudate. The midgut serosa often has numerous whitish pinpoint foci, and may appear engorged. The oocysts and gametocytes (particularly macrogametocytes), present in the lesions, are distinctly large.

*E. mitis* affects the distal small intestine. Lesions are indistinct but may resemble moderate infections of *E. brunetti*. *E. mitis* can be distinguished from *E. brunetti* by finding small, round oocysts associated with the lesion.

*E. praecox*, which infects the proximal small intestine, does not cause distinct lesions but may impair growth. The oocysts are larger than those of *E. acervulina* and are numerous in affected areas. The intestinal contents may be watery. *E. praecox* is considered to be of less economic importance versus other species.

*E. hagani* and *E. mivati* develop in the proximal small intestine. The lesions of *E. hagani* are indistinct and difficult to characterize. However, *E. mivati* may cause severe lesions similar to those of *E. acervulina*. It is unclear



whether *E.mivati* and *E.hagani* are separate species or variations in size of other known *Eimeria* spp.

### Diagnosis:

- Fecal flotation
- Histopathologic examination of tissue samples collected at necropsy

Diagnosis is based on the location of lesions in the host and their appearance; the size of oocysts present is used to determine the species. Coccidial infections are readily confirmed by demonstration of oocysts in feces or intestinal scrapings; however, the number of oocysts present has little relationship to the extent of clinical disease. Severity of lesions as well as knowledge of flock appearance, morbidity, daily mortality, feed intake, growth rate, and rate of lay are important for diagnosis. Necropsy of several fresh specimens is advisable. Classic lesions of *E.tenella* and *E.necatrix* are pathognomonic, but infections with other species are more difficult to diagnose. Comparison of lesions and other clinical signs allows a reasonably accurate differentiation of the coccidial species. Mixed coccidial infections are common.

A diagnosis of clinical coccidiosis is warranted if oocysts, merozoites, or schizonts are seen microscopically and if lesions are severe. Subclinical coccidial infections may be unimportant, and poor performance may be caused by other flock disorders.

### Control:

Use of anticoccidial compounds in feed or water, vaccination, or a combination of both to prevent clinical signs. Once clinical signs appear, use of antibiotics and supportive care is advisable to minimize dehydration

and secondary bacterial infection

Practical methods of management cannot prevent coccidial infection. Poultry maintained at all times on wire floors to separate birds from feces have fewer infections; clinical coccidiosis is seen only rarely under such circumstances. Other methods of control are vaccination or prevention with anticoccidial drugs.

### Vaccination:

A species-specific immunity develops after natural infection, the extent largely depends on the severity of infection and the number of reinfections. Protective immunity is primarily a T-cell response. Commercial vaccines consist of live, sporulated oocysts of the various coccidial species administered at low doses. Modern anticoccidial vaccines should be given to day-old chicks, either at the hatchery or on the farm. Because the vaccine serves only to introduce infection, chickens are reinfected by progeny of the vaccine strain on the farm. Most commercial vaccines contain live oocysts of coccidia that are not attenuated.

### Anticoccidial drugs:

Many products are available for prevention or treatment of coccidiosis in chickens. Anticoccidials are given in the feed to prevent disease and the economic loss often associated with subacute infection. Prophylactic use is preferred, because most of the damage occurs before signs become apparent and because drugs cannot completely stop an outbreak. Therapeutic treatments are usually given by water because of the logistical constraints on feed administration. Antibiotics and increased levels of vitamins A and K are sometimes used in the ration to improve rate of recovery and prevent secondary infections.

Continuous use of anticoccidial drugs promotes the emergence of drug-resistant strains of coccidia. Various programs are used in attempts to slow or stop selection of resistance.

The commonly used drugs for coccidia are amprolium, clopidol, folic acid antagonists, hydrobromide, ionophores (monensin, salinomycin, lasalocid, narasin and maduramicin), nicarbazine, robenidine, diclazuril.

**Photographs:**



Bloody diarrhea



Cloaca (Vent) with blood strain



Ceca with blood



Ceca with blood



Ceca with blood



Ceca with blood

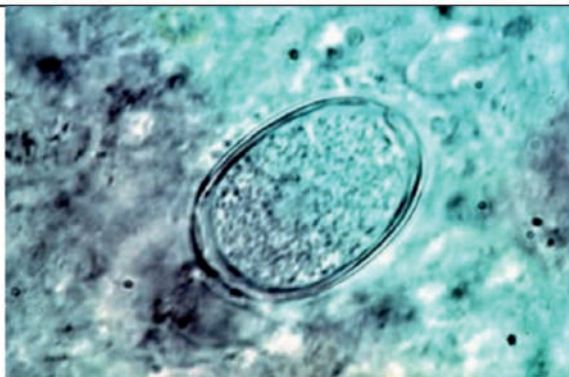




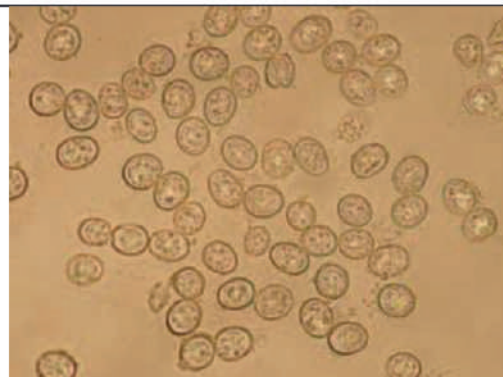
Intestine with haemorrhages



Intestine with blood



Oocysts of Coccidia in microscope



Oocysts of Coccidia in microscope

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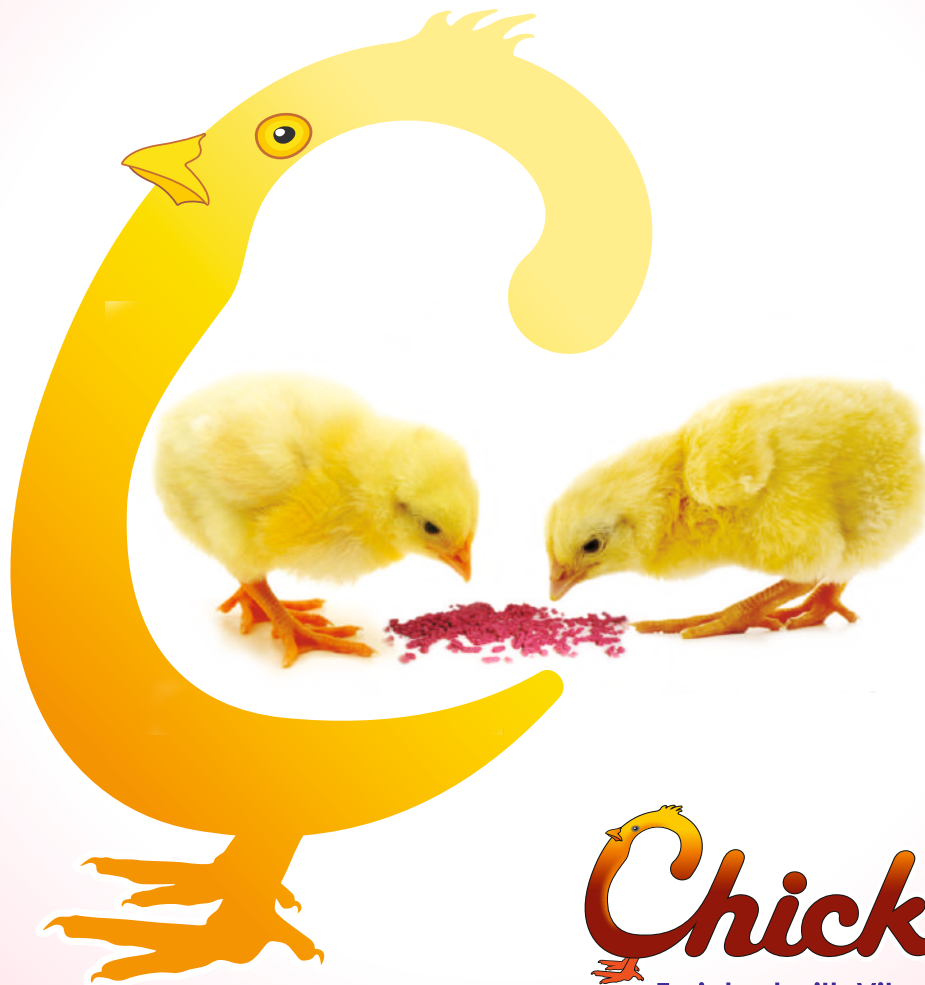
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