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Vol. XXIII October 2024 No. 4



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Aviagen Hosts Leader's Summit for Key Indian Poultry Producers

Aviagen and industry leaders are committed to strengthening the success of Indian poultry to provide communities with a nutritious, affordable protein


From August 21-23, Aviagen® India welcomed key industry leaders to Chiang Mai, Thailand, for its Annual Leadership Summit. The event was an exclusive gathering of prominent Indian poultry producers, designed to encourage collaboration, share insights, and explore emerging trends and opportunities in the sector. Dr. Ramakrishna Balasubramanian, Aviagen India Business Manager, opened the summit with a warm welcome, followed by Dr. Peter Fisher, President of Aviagen Asia, who provided an update on the poultry market in India and across Asia. The summit featured a series of thought-provoking presentations from industry experts, including:

- **Jose Martin Xavier**, Regional General Manager for Marel, who shared cutting-edge innovations in poultry production and the latest market trends.
- **Bhupinder Singh**, CEO of Vista Processed Foods (OSI Group), who discussed new opportunities in value-added food products and their potential impact on the Indian market.
- **Dr. Peter Chrystal**, Senior Poultry Nutritionist for Aviagen Asia Pacific, who offered strategies on maximizing profitability through

optimized feed costs while enhancing bird health, welfare, and efficiency.

In his closing remarks, Ferry Monné, Marketing Manager for Aviagen India, expressed gratitude to the attendees, emphasizing the value of such collaborative gatherings in driving the industry forward. Reflecting on the event, Dr. Balasubramanian remarked, "The high level of engagement and quality discussions at the summit highlight our commitment to empowering our customers with the knowledge and tools they need to thrive in a rapidly evolving market. We are dedicated to supporting their growth and ensuring they are well-prepared to meet future challenges and opportunities."

Dr. Fisher added, "India's poultry production has seen tremendous growth in recent decades, largely due to the hard work and innovation of our customers. Their dedication to delivering a sustainable, affordable, and nutritious protein source to Indian families is truly inspiring. In the spirit of 'Breeding Success Together,' this summit provided an invaluable platform for exchanging ideas and insights that will shape the future of India's poultry industry."

Since 1923, Aviagen® has been recognized as a preferred global poultry breeding company. Its mission is to "Breed Success Together" with its valued customers, supporting these global chicken producers in their crucial endeavor to supply sustainable, affordable and nutritious protein to communities worldwide. Committed to driving positive change in the poultry industry, Aviagen implements efficiencies that not only make commercial chicken production environmentally and socially responsible, but also economically beneficial to producers. Their holistic approach focuses on simultaneously enhancing bird performance, health and welfare, while ensuring food safety and security by upholding the highest biosecurity standards. To meet varied market demands, Aviagen offers a full portfolio of breeding stock under the Arbor Acres®, Indian River® and Ross® brand names. The Rowan Range® and Specialty Males® target slower-growing and other niche market needs. Aviagen is based in Huntsville, Alabama, US., with operations across the UK, Europe, Turkey, Latin America, India, Australia, New Zealand, Africa and the US, and joint ventures in Asia. The company employs close to 8,000 people, and serves customers in 100 countries. 

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– **Nemanja Todorovic**, Chief Business Officer



"Recently, **M. K. Vyas**, Managing partner of HIND POULTRY and General Secretary Indian Poultry Journalists' Association, while on his visit to SPACE, France interacted with **Mr. Nemanja Todorovic**, Chief Business Officer, Nuance Biotechnology, Switzerland and discussed the range of its products, its benefit to livestock industry, and future plans of the company."

The excerpt of the interview is given hereunder.

Question : Could you share an overview of your background, your company's journey, its areas of expertise, and the key services you offer?

Nemanja Todorovic : My name is Nemanja Todorovic, and I'm a veterinarian by education. My professional journey began 10 years ago as a field veterinarian. Two years later, I transitioned into the feed industry, focusing on technical and sales roles. After gaining experience with a multinational company, I decided to pursue my entrepreneurial passion and, in 2022, co-founded Nuance Biotechnology with a few colleagues.

Nuance Biotechnology is a young but dynamic company dedicated to developing and commercializing innovative feed additives. In addition to our core work, we acquired Global Nutrition International and Nutri Concept, uniting all operations under one

team—our key philosophy. Though we're a Swiss-based company, all our manufacturing facilities are in France, from where we export to over 40 countries.

Our team is global, with members from Switzerland, France, and other parts of the world. We have a strong sales force in South Asia(India), Brazil, Thailand, Vietnam, the United States, and across Europe. Despite being a new company, we're already making a significant impact in the global feed additive industry.

Question : Could you share your specific targets for the Indian market? Additionally, have you conducted any commercial trials for the Indian or Southeast Asian markets?

Nemanja Todorovic : Our goals for the Indian market are clear. First, we aim to expand through strategic partnerships and a robust distribution network. Following

that, we plan to collaborate with research institutions to validate our products, as we strongly believe in science and the importance of recognized, credible research backing. Lastly, we are focused on educating the industry, particularly farmers, about our innovative products and solutions.

While we are committed to science, we also believe that its real value is proven in the field. Some of our products have already been validated in India, and now, with the support of Mr. Joginder Singh, Business Director ISC, we are initiating research and commercial trials across our full portfolio.

Question : How the acquisition of Global Nutrition International and NutriConcept, strengthen your position in the animal nutrition? what is the vision and mission of your company behind this Acquisition?

Nemanja Todorovic :

Acquiring a globally recognized nutrition company, well-known in France and the feed additive industry, brought significant value to us. This company has a strong technical and scientific foundation and a solid presence across Europe, especially in its core markets. The real synergy we saw was in combining French expertise in feed additives, Swiss precision, and Serbian dynamism.

With the rising global demand for meat and animal products, intensive farming presents challenges, including animal health, welfare, and environmental impacts. Our goal is to enhance animal resilience, reduce the use of antibiotics, and build trust with farmers, veterinarians, and technicians. By offering not only innovative, high-quality products but also technical support, we aim to help improve profitability while mitigating the overall impact of intensive farming.

Question : What kind of technical support do you offer to farmers? Do you have plans to provide training for people from different parts of the world?

Nemanja Todorovic : We take a holistic approach to supporting farmers, with our veterinarians and nutritionists playing a key role in the field. Our technical support includes assistance with feed formulation and the use of advanced diagnostic tools. For example, we provide cutting-edge mycotoxin detection technology and conduct water quality assessments, as well as evaluate animal nutrition and digestion.



In addition to our in-house team, we collaborate with renowned institutions and experts to extend our support. Training is a critical part of our mission, both for farmers and our partners. We aim to do this in two ways: first, through hands-on field training where farmers can see our solutions in action; and second, by organizing conferences and seminars where professionals from around the world can share insights and best practices with each other.

Question : Doctor, as probiotics gain traction in the Southeast Asian market, farmers are increasingly seeking sustainable alternatives to AGPs and antibiotics. However, in many developing countries, farmers still struggle to differentiate between postbiotics, probiotics, and antibiotics. What unique benefits does your product offer to help farmers clearly understand these distinctions and choose your solution over others?

Nemanja Todorovic : First, it is important to clarify that postbiotics are a new trend in the industry, and customers need to understand their unique value. In simple terms, postbiotics can be seen as the 'harvest' of probiotics. Imagine a tree: the fruit, or apple, represents probiotics; the tree itself is a

probiotic, and the soil is the prebiotic.

Technically, postbiotics consist of metabolites and cell wall fragments that offer various health benefits to animals. One of the key advantages of postbiotics, particularly with our new biotic platforms, is their stability – both during transportation and storage – unlike probiotics, which are live microorganisms and more sensitive. Postbiotics are highly stable, making their application predictable and reliable. They also deliver higher levels of beneficial metabolites to animals, resulting in faster, more effective benefits.

Question : New brands claim to offer naturally derived products that boost immunity and digestibility. What sets them apart from existing animal health solutions?

Nemanja Todorovic : As a global nutrition company, we are committed to delivering exceptional value to our customers through three key pillars. Firstly, we prioritize science-backed solutions, ensuring that our products are not only effective but also profitable for our customers. This is achieved through rigorous scientific testing and validation.

Secondly, we focus on innovative delivery systems, such as postbiotics, which enable us to deliver the optimal level of beneficial metabolites to animals, resulting in rapid absorption and scientifically-proven efficacy.



Lastly, we differentiate ourselves through our comprehensive technical support, which accompanies our product line. This support is tailored to meet the specific needs of our customers, particularly in the Indian market. By combining these three pillars, we aim to provide our customers with a unique and unparalleled experience that sets us apart from the competition.

Question : Most of the Indian farms are open houses whereas Europe and U.S are more about E.C House or Closed houses. How efficacy of a product will be maintained when a European product-line is introduced in the south east Asian Market?

Nemanja Todorovic : As a global company, we recognize the importance of standardizing our products to ensure consistent efficacy across different regions. Despite the challenges associated with transportation and varying climate conditions, our products maintain their efficacy, which can be scientifically verified by monitoring the levels of metabolites present. One of the key advantages of our probiotics is their stability, which makes them thermostable, pH stable, and resistant to environmental stressors.

This is because they are not live microorganisms, but rather a carefully prepared blend of metabolites that provide a consistent and reliable benefit.

Question : When you refer to the next generation mycotoxin or endotoxin. What does it really mean?

Nemanja Todorovic : General, mycotoxins pose a significant threat to the livestock industry, accounting for approximately 60-70% of the total cost of feed for farmers. With the increasing impact of climate warming, the importance of mycotoxin management cannot be overstated. Our company's approach to mycotoxin and endotoxin management involves two key components. Firstly, we provide rapid, efficient, and precise quantification of mycotoxins in feed and raw materials, which is a crucial initial step in effective management. Secondly, we offer a range of mycotoxin detoxifiers that employ multiple mechanisms of action, including binding, immune stimulation, and organ protection. Our binding agents prevent the uptake of harmful mycotoxins in the gastrointestinal tract, while our

immune stimulants counteract the immunosuppressive effects of mycotoxins. Additionally, our formulations provide targeted protection to vulnerable organs, such as the liver and intestinal tight junctions. By combining these strategies, we aim to provide a comprehensive solution to the challenges posed by mycotoxins in the livestock industry.

Question : Have you started sending your consignment to India or not? How do you want to market your products at step to step? Or you want to do it pan India?

Nemanja Todorovic : We have commenced our operations in India, and our primary strategy at present is to identify and partner with the right entities. We have already established relationships with a few key partners and are in the process of regionalizing our sales approach in India. Given the vast geographical expanse and diverse market dynamics of the country, we believe it is essential to adopt a step-by-step approach, focusing on specific regions and segments.

Our initial target markets are the ruminant and broiler sectors, which we will address through a select network of distributors. However, our long-term vision is to implement a hybrid model, where we will work directly with major key accounts, leveraging our in-house team's expertise. This approach will enable us to gather feedback, address concerns, and refine our strategy as we expand our presence in the Indian market. We firmly believe in the importance of experience and knowledge in the field, which is why we are taking a deliberate and

phased approach to our market entry. I am confident in the success of our product and the vast opportunities that the Indian market presents. By proceeding in a measured and strategic manner, we aim to establish a strong foundation for our business in India.

Question : What are the advantages of USP GNI offer from your feed additive solutions and how they are different than competitive?


Nemanja Todorovic : Our company's unique selling proposition (USP) is built on three key pillars. Firstly, our products have a strong scientific foundation, having been rigorously tested and validated by reputable research institutions. This ensures that our offerings are not only effective but also backed by empirical evidence. Secondly, our innovative delivery systems guarantee that our products are utilized to their full potential, minimizing waste and maximizing their impact.

Lastly, and most importantly, we provide exceptional technical support to our customers, recognizing that farmers face numerous challenges and require guidance and assistance to optimize their yields. This comprehensive approach sets us apart from our competitors and underscores our commitment to delivering value to our customers.

Question : Your Message to the southeast Asian Poultry Industry?

Nemanja Todorovic : To producers worldwide, my message is clear: embracing innovation and sustainability is crucial for the future of our industry. By doing so, we can simultaneously maintain production levels, ensure profitability, prioritize animal health, and protect the environment. It is essential for feed producers and animal producers to adopt innovative and sustainable practices to ensure the long-term viability of our industry.

In the Indian market, our primary focus is on market expansion through strategic partnerships with distributors and research organizations. By collaborating with local experts and leveraging India's wealth of knowledge and experience in our industry, we can tap into the country's vast potential.


The Indian broiler industry's reputation as one of the most profitable in the world is a testament to the country's expertise and capabilities. To support the growth of the Indian market, we will prioritize the education and training of farmers through various seminars, workshops, and training programs. Our team in India will work closely with local partners to develop and implement these initiatives, ensuring that farmers have access to the latest knowledge, technologies, and best practices. By investing in the education and training of farmers, we can empower them to adopt innovative and sustainable practices, ultimately driving the growth and success of the Indian animal production industry. 



**Joginder Singh
Business Director ISC**

Joginder Singh the newly appointed Business Director ISC is graduated in Agricultural Sciences from HAU, Hissar - Haryana. His distinguished career as a leadership role and senior management demonstrated extensive expertise in sales, marketing, technical services & cross functional leadership.

Mr. Joginder Singh brings an impressive 30 years of experience in the Animal Health Industry, specializing in Poultry and Livestock with significant exposure to the marketing in the Indian subcontinents, South East Asia and the Middle East.

Nuance biotechnology while announcing the appointment of Mr. Joginder S. Uppal commented that he will undoubtedly enrich our team with his expertise, dynamic approach, and valuable experience collected during more than three decades spent in the animal health Industry focusing in Poultry and Livestock domains. 



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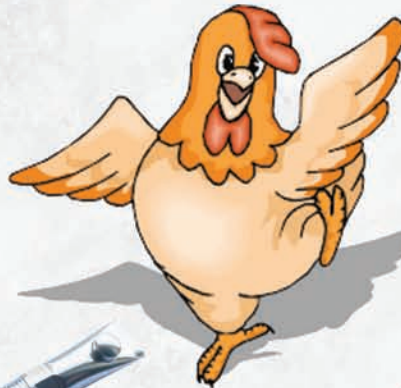


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Sarwar Ali

Feed Safety Culture is Not a "One Size Fit All" Proposition

Every feed miller in today's global feed industry, no matter how small or large, adheres to some degree of feed safety practices. Most of these practices have maintained a safe feed production and supply for many years and will continue to do so. It is widely recognized that feed safety standards are important since a significant portion of feed production is being integrated both vertically and horizontally. Despite this, the market is still complex and fragmented, requiring more than

written rules, regulatory oversight, and feed safety practices.

To ensure feed safety, it is necessary to strengthen collaboration between stakeholders, share information, and develop innovative solutions. Additionally, it is important to invest in the necessary infrastructure to ensure that feed safety is maintained. Creating a safe and sustainable supply of feed requires more than just formal regulations; it is essential to understand the company's culture as well.

Unlike the rule, culture draws its power from the people, from the unspoken to the intuitive, from simple to complex observation, and from beliefs as fundamental as "This is the right thing to do" and "We would never do this." Rules state facts; culture lives through the human experience. A positive culture of feed safety can be developed and maintained by feed millers regardless of the size of their operations.

A feed safety culture can be defined as the shared values, beliefs, and norms that influence


organizational mindset and behaviour toward feed safety. Industry professionals can foster a positive culture of feed safety within their respective organizations. Experts from different segments of the feed industry will contribute their experiences and perspectives to this important discussion.

Emphasis can be placed on following-

Five Dimensions & Critical Component of Feed Safety

Mission	People	Consistency	Adaptability	Risk
Business Structure	Stakeholders	Accountability	Industry expectation	Information & Education
Direction & Expectation	Communication	Performance Management	Agility	Engagement
Messaging	Rewards & incentives	Documentation	Crisis management	Verify hazard & Risk

1. Leadership and management play an important role throughout an organization, from the CEO to the feed mill operator and from the feed distributor to the farm manager.
2. The importance of regular communication, education, metrics, teamwork, and personal accountability in advancing feed safety for the future.
3. In addition to learning new skills, adaptability is an essential component of ensuring that a safe feed practice is carried out in real time.

A table like the following can help foster culture change from both a top-down and bottom-up perspective in the feed safety culture maturation process. While these qualities can be developed naturally within a supportive and positive culture, they also require conscious investment, strategic oversight and a commitment to continuous improvement. 

EGG	
EDITABLE AND RESIZABLE	
NUTRITION FACTS	
Serving Size	1 Large Egg (50g)
	%Daily Value*
Calories	70
Total Fat	5g
- Saturated Fat	1.5g
Cholesterol	210mg
Sodium	70mg
Total Carbohydrates	0.6g
- Dietary Fiber	0g
- Sugars	0g
Protein	6g
Vitamin D	44 IU (11% DV)
Potassium	70mg
Calcium	28mg (2% DV)
Iron	1mg (6% DV)

DV stands for Daily Value, and it is based on a 2,000 calorie diet. These values are approximate and can vary based on factors such as ripeness and banana size.


NOVUS partnering with biotech company to develop new feed additives

The leader in intelligent nutrition, Novus International, Inc., and Ginkgo Bioworks (NYSE: DNA), which is building the leading platform for cell programming and biosecurity, today announced a partnership to develop advanced feed additives designed to meet the evolving needs of the animal agriculture industry. NOVUS will utilize Ginkgo Enzyme Services to build more efficient enzymes that can be produced cost-effectively.

With the agricultural sector facing heightened volatility, including rising feed costs and tightening margins, NOVUS is committed to supporting its customers by optimizing the health and performance of livestock. The partnership aims to bring cutting-edge technologies to market, enhancing the sustainability and efficiency of animal production systems. These innovations are intended to improve the overall well-being of chickens, pigs, and cows, thereby supporting producers in delivering nutritious and affordable animal products to consumers.

“With the challenges and volatility facing the agriculture industry, a multifactorial approach is needed for producers to meet their financial goals and end customers to continue to enjoy nutritious and affordable meat, milk, and eggs,” says Abishek Shingote, NOVUS Associate VP of Global Strategic Marketing, Technology and Innovation. “This multifactorial approach requires advanced technologies combined with application knowledge. The partnership with Ginkgo Bioworks puts NOVUS on the path to create new technologies that support health and performance consistency in chickens, pigs, and cows.” Shingote said the products NOVUS and Ginkgo Bioworks are working to develop came out of conversations with NOVUS customers and deep analysis of industry needs.

“Innovation is at the heart of NOVUS. Sustaining thriving livestock is a challenge, especially against economic, environmental and regulatory headwinds,” Shingote says. “We make it our mission to find new and novel ways to support our stakeholders and the industry.”

Ginkgo Bioworks is the leading horizontal platform for cell programming, providing flexible, end-to-end services that solve challenges for organizations across diverse markets, from food and agriculture to pharmaceuticals to industrial and specialty chemicals. “Partnering with NOVUS presents an exciting opportunity to apply Ginkgo’s enzyme development services in a very important domain,” says Dan Rosmarin, Vice President, Commercial at Ginkgo Bioworks. “Together, we can accelerate the development of innovative products that offer tangible benefits to the animal agriculture industry, with the potential to enhance both productivity and sustainability. This partnership will leverage Ginkgo’s research innovation platform combined with NOVUS’ animal feed application knowledge, putting us on the path to create innovative technologies that meet the evolving needs of the livestock industry.” 

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SPACE 2024: INTERNATIONAL FARMING BEACONS FROM RENNES



The **1 210 exhibitors present, including 370 international from 37 countries** welcomed **101 757 visitors (+12% compared to 2023)** out of which **12 534 international from 120 countries**. This record attendance on the three days of exhibition reflects the exceptional density of this edition. This 2024 SPACE generated **high-quality exchanges thanks to a favourable economic conjuncture in the Western farming sectors**. According to exhibitors, visitors came to meet them with many projects. All stressed the high quality of exchanges and the development prospects for agriculture that they allow to be envisaged. Many visitors, both French and foreign, came to SPACE looking for suppliers and advice that will enable them to make our agriculture ever more efficient and sustainable in order to meet the global food challenge.

SPACE 2024 took place from Tuesday 17 to Thursday 19 September at the Parc-Expo in Rennes, France. This highly successful global scale 38th edition of SPACE was carried out under a radiant sun and in a highly constructive environment.

A Strong National and International Political Presence

The Minister of Animal and Fisheries Resources of Ivory Coast, Mr. Sidi Tiémoko Touré honored SPACE with his visit. Mr. Touré was accompanied by many Ivorian professionals, including ANAVICI, the Ivory Coast National Association of Poultry Farmers that works every day to succeed in the challenge of

feeding their population locally in the future. There were yet again many delegations from Africa, with lots of projects for the development of agricultural sectors in their countries. The Agri'Panel, organized for the first time as part of the Show to discuss the importance and challenges of raw material flows between our continents, was also a highlight among the over 100 conferences held in all meeting spaces.

The Prefect of the Region, Philippe Gustin, the President of the Brittany Region, Loïg Chesnais-Girard, made the opening visit of this edition. Nathalie Appéré, Mayor of Rennes and President of Rennes Métropole also had the opportunity to exchange views with the various stakeholders present at SPACE during her dedicated visit.

Luis Carazo Jimenez, Acting Director of the DG Agriculture and



Rural Development of the European Commission also honoured us with his presence in a visit co-organised with the European association Maison de l'Europe. His presence gave rise to high-level exchanges on the future challenges of European agriculture with the guidelines for the future CAP which are now being written. FDI, mirror clauses, France's place in the European and world chess board, all these crucial subjects were addressed through these exchanges.

Across-party delegation from the Economic Affairs Committee of the National Assembly, organized on the initiative of MP Nicole Le Peih also walked through the aisles of SPACE. Chaired by Mr Antoine Armand, new Minister of Economy, Finance and Industry, this visit was highly appreciated by the professional leaders who were able to express their impatience with the definition of a clear course for French agriculture. Many parliamentarians were also present individually at the Show to take the pulse of the agricultural world. Among them, we

can mention first of all Françoise Gatel, new Minister for Rural Affairs, Crafts and Trade, and Sophie Primas, new Minister for Foreign Trade.

The Espace for Future was this year under the theme: «Empowering Generations: let's invent the Future». This slogan perfectly reflects the general spirit that prevailed on this edition. Many exchanges, very busy round tables, practical solutions exposed... A complete offer to discuss the themes of transmission, financing, organization and organisation of working time,... to answer the crucial questions for the future: how to attract and transmit, how to retain employees, how to understand each other across generations, how to chart your own path... All these subjects have once again made Espace for the Future a real melting pot for the future of animal farming in the West.

Innovation and Youth at the Heart of the Exhibition

Bet won! SPACE has reached

the new generation. The Youth Forum has set the course two years ago with its desire to give young people a space to express their expectations of living well in their profession. It was completed by the Tech'Agri Challenge by Innov'Space, which promotes the joint work of students in innovation to provide solutions for farmers. This year, the organization has again proposed new features to its young public, with the Farming Simulator which was very successful in terms of participation. We also welcomed the community of influencers who share their lives as young farmers in a positive light on social media. Their meet & greet session was very popular. It was one of the most exciting moments of this week.

A Record Year for Innov'Space Stars


The presentation of the Innov'Space trophies and the revealing of the eight special mentions was another particularly remarkable moment at the Exhibition. This year, Innov'Space was under the sign of a record number of stars with its 48 prizewinners. All these innovations, which mark a remarkable level of expertise of the prizewinning companies, are highly sought after by visitors. This year, they were particularly related to improving working conditions for livestock farmers, animal welfare and health.

The animal presentations and competitions provided a unique genetic showcase for visitors. The strict sanitary framework imposed by SPACE on exhibiting breeders and the derogation of official

authorities, allowed these presentations and competitions to take place in a configuration almost identical to that foreseen before this uncertain health context due to the EHD and Ovine Catarrhal Fever epidemics. The competitions were of a very high standard, with beautiful animals, as well as the "Meat Excellence" auction and Genomic Elite auction which are now references at international level. The Supreme Championship, unique in the Exhibitions' world and crowning the judges' favourite of all competitions, this year has awarded a "Pie Rouge" cow, after having rewarded a Jersey, a Normand and a Prim'holstein in previous years. This diversity is the best proof of the excellence offered by SPACE animal presentations regardless of breed. This year's honour breed, the Limousin and the Prim'Holstein as part of the Challenge France offered all genetics enthusiasts exceptional moments of professionalism and quality.

A Bet Won for the Future !

The public at the Show greatly appreciated these new features proposed by SPACE. These participants also noted and welcomed the high level of overall organization of the event. The participants also enjoyed the convivial moments in the new dedicated areas on the Show, such as the first Breton Medallists' Village of the French General Agricultural Competition or the new Terrace area which offered a wide range of restaurants. The return of the exhibitors' breakfast on Thursday was much appreciated. The evenings at SPACE, starting with the Before party and going to the Young Farmers Association closing party, the Exhibitors' party and the farmer's evening, were marked by an extraordinary atmosphere of exchange and conviviality.

This 2024 SPACE edition was the full expression of the modernity of agriculture by allowing to clearly and openly ask questions related to the farms acquisitions. Faced with these questions, professionals have found the technical solutions, innovations, advice and guidance to enable them to flourish in their jobs and live well tomorrow. It is the best guarantee for the future of agriculture in the West and in the 120 countries that come to meet SPACE. Our farming models are attractive and meet the expectations of the industry. This SPACE 2024 was an inspiring and shining proof of it. 





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CLFMA of INDIA Welcomes Its New Dynamic Leadership Team

CLFMA OF INDIA, a non-profit organization and the apex chamber representing the "One Voice" of the livestock industry, proudly announces its newly elected leadership team for the term 2024-2026. Established in 1967, CLFMA has played a pivotal role in promoting the animal husbandry sector, focusing on balanced animal nutrition to enhance productivity. Since 2002, it has grown to represent a diverse membership of over 250 stakeholders, including dairy, poultry, and aqua sectors, as well as feed additives manufacturers, breeders, integrators, and vaccine producers.


On 20th September 2024, the new Managing Committee and Office Bearers of CLFMA OF INDIA officially took the charge following the Election. The newly elected Chairman for the period 2024-2026, Mr. Divya Kumar Gulati, Managing Director of Nurture Technology, leads the association along with the other newly elected office bearers, an experienced and capable team, committed to driving innovation and growth in the Indian livestock sector.

The outgoing Chairman, Mr. Suresh Deora, Director of S.A. Pharmachem Pvt. Ltd., has been an instrumental force in CLFMA's recent success. Under his stewardship, CLFMA has grown in stature, building stronger government engagement and hosting numerous impactful seminars. Mr. Deora's expertise in human and animal nutrition, coupled with his significant influence in industry forums such as the Indian Red Cross Society and the India-China Chamber of Commerce and Industry, set a high benchmark for the association. His dedication has been deeply appreciated, and his legacy will serve as a guiding light for future leaders.

Introducing CLFMA OF INDIA Chairman Mr. Divya Kumar Gulati, Bringing over 30 years of invaluable experience in healthcare, nutrition, and the food industry, Mr. Divya Kumar Gulati is well-poised to lead CLFMA into its next chapter. As a pioneer of probiotic culture in Indian shrimp farming and a champion of sustainable farming technologies, Mr. Divya Kumar Gulati has a proven track record of introducing innovative solutions that have transformed industry standards. His ability to merge modern technologies with traditional ayurvedic herbal ingredients has yielded groundbreaking results in poultry and dairy farming.

For over 12 years, Mr. Divya Kumar Gulati has played a key role within CLFMA OF INDIA, most notably as Deputy Chairman. His participation and expertise in navigating government relations, especially with the Ministry of Fisheries, Animal Husbandry, and Dairying, has been instrumental in shaping policies that benefit the livestock industry.

Following Office Bearers were elected for the period 2024-2026:

1. Chairman: Mr. Divya Kumar Gulati, Nurture Aqua Technology Pvt. Ltd.,
2. Deputy Chairman: Mr. Sumit Sureka, Shivshakti Agro (India) Pvt. Ltd.,
3. Deputy Chairman: Mr. Naveen Pasuparthi, Nanda Feeds Pvt. Ltd.
4. Deputy Chairman: Mr. Abhay Parnekar, Godrej Tyson Foods Ltd.,
5. Deputy Chairman: Mr. Abhay Shah, Spectoms Engineering Pvt. Ltd.,
6. Honorary Secretary: Mr. Nissar F. Mohammed, Coastal Exports Corporation,
7. Treasurer: Mr. R. Ramkutty, Niswin Enterprises,
8. Immediate Past Chairman: Mr. Suresh Deora, S.A. Pharmachem Pvt. Ltd. The other members of the Managing Committee 2024-2026 comprises of:
9. Mr. Rajneesh KR Jha : Anmol Feeds Pvt. Ltd.,
10. Mr. Balaram Bhattacharya : Avitech Nutrition Pvt. Ltd.,
11. Mr. Vijay D. Bhandare : Bhavani Agrovet Pvt. Ltd.,
12. Dr. Prashant Shinde : Cargill India Pvt. Ltd.,
13. Dr. Saikat Saha : Evonik India Pvt. Ltd.,
14. Capt. (Dr.) A.Y. Rajendra : Godrej Agrovet Ltd.,
15. Mr. Anushrav Gulati : Herbs & Health Biotech Pvt. Ltd.
16. Dr. Devender Hooda : Huvepharma SEA (Pune) Pvt. Ltd.,
17. Dr. Vijay Makhija : Intervet India Pvt. Ltd.
18. Mr. K A Sujit Chandan : Komarla Feeds & Foods Pvt Ltd,
19. Mr. Anil M. : KSE Limited,
20. Mr. R. Lakshmanan : Shanthi Feeds Pvt. Ltd.
21. Mr. Jaison John : U. S. Soybean Export Council, Inc. 

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Maintaining Water Quality for Healthy Gut of Poultry

Dr. Ashok Rajguru, Program Manager, Trouw Nutrition South Asia

Water is the most important nutrient for poultry which plays a critical role in bird performance. The main functions of water are thermoregulation, digestion, and absorption of nutrients. It also acts as a carrier for administering additives, such as medication, supplements, etc. Chickens consume twice as much water as feed. Water quality takes on an increasingly valuable role as public concern over antibiotic use in the poultry industry. Water quality is one of the most critical and least appreciated factors for bird performance. Therefore, providing a clean and safe water supply is crucial for optimal broiler performance.

To ensure water quality, we must check the following parameter

- Physical examination- Color, taste, odour and Turbidity
- Chemical Test - pH, Hardness, TDS, Alkalinity, Mineral level
- Microbial Analysis - Total bacterial count, Coliform, Enterobacteriaceae, E. coli, Salmonella, Mold count

Physical Examination

Drinking water should be clear, tasteless, odourless, and colourless. As a general observation, a reddish-brown colour may indicate the presence of iron, while a blue colour indicates the presence of copper. Hydrogen sulfide is indicated by a rotten egg odour. Hydrogen sulfide may also combine with iron to form black water (iron sulfide), implicating the presence of sulfate-reducing bacteria. Taste can be affected by the

presence of salts, and a bitter taste is usually associated with the presence of ferrous and manganese sulfates. Turbidity results from suspending materials such as silt, clay, algae or organic materials in water.

Chemical analysis

1. Water pH

The acidity or alkalinity of water is measured by pH. A pH of 7 indicates that the water is neutral, a pH less than 7 indicates acidity and a pH greater than 7 indicates alkalinity. High-pH water is also unacceptable since it reflects high levels of calcium and magnesium, which can clog watering systems. Poultry accepts water on the acidic side better than they accept water on the alkaline side. The ideal water pH should be 5.5-6.

2. Total Dissolved Solids (TDS)

Measurement of total dissolved solids (TDS), or salinity, indicates levels of inorganic ions dissolved in water. Calcium, magnesium, and sodium salts are the primary components that contribute to TDS. High levels of TDS are the most found contaminants responsible for causing harmful effects in poultry production.

3. Hardness

Hardness refers to the presence of dissolved minerals such as calcium and magnesium in either bicarbonate or sulfate form and is expressed as an equivalent of calcium carbonate. Hard water is commonly associated with the buildup of deposits and the formation of scale in the components of the watering system. High levels of magnesium sulfate (MgSO₄) may

cause an increase in water consumption, wet droppings, and a drop in production. Extreme hardness may diminish the effectiveness of water-administered medications, disinfectants, and cleaning agents.

4. Alkalinity

Alkalinity is measure of the capacity of water to neutralize acids. The Alkalinity predominantly content carbonates, bicarbonates and hydroxides. The bicarbonate ion is usually prevalent. Alkalinity is generally associated with high pH, Hardness & TDS. High alkalinity water may have distinctly flat, unpleasant tast.so alkalinity should not exceed 200 mg/ L for potable water. Alkalinity is important because it majorly decides the water acidifier required quantity for desired pH reduction.

Table 1: Water Quality (Chemical) Standard for Poultry

Water Quality Parameter	Maximum Value
Total Hardness	300 mg/L
TDS	1000 mg/L
Alkalinity	300 mg/L
pH	5.5-6
Calcium	100 mg/L
Chloride	250 mg/L
Copper	0.6 mg/L
Cadmium	0.01 mg/ml
Iron	0.3 mg/L
Lead	0.02 mg/L
Magnesium	125 mg/L
Nitrite	4 mg/L
Nitrate	20 mg/L
Sodium	50 mg/L
Sulfate	250 mg/ml
Zinc	1.5 mg/L

* Watkins, S. 2008. Water: Identifying and correcting challenges. Avian Advice 10(3): 10-15

Microbial Analysis

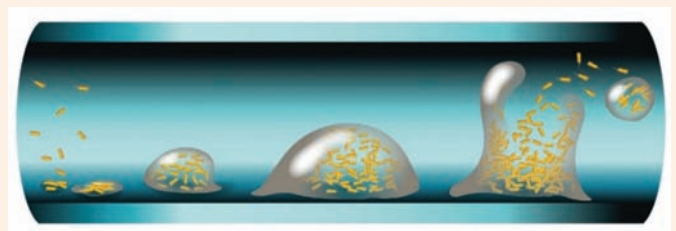
Water is the most important nutrient for bird performance, but water is also a major source of water contamination which disturbs poultry gut health and overall performance. Water is a carrier of microbial challenges and easily can contaminate the drinking system of broiler houses with biofilms (Fig. 2) which would affect the quality and quantity of water intake.

When bacteria attach to the interior wall of a water pipe, they begin to exude a sticky substance called biofilm (fig.2). This substrate becomes an ideal home for bacteria to reproduce and colonize. Biofilm can build up rapidly and become a breeding ground for waterborne pathogens, such as E. coli. Biofilms will affect bird performance consequent to the reduced effectiveness of medication & vaccination, reduced nipple flow rate, blocked drinking system/nipple or nipple leakage and increased bacterial disease mortality. There should be bacterial count within permissible limits. (table no.2). E. coli is introduced into the water system, and they can survive/multiply in the biofilm.

Table. 2

Maximum recommended microbiology values in water*	
	cfu/mL
Total bacteria	< 100
Total Coliform	< 50
Faecal Coliform	0
Enterobacteria	< 100
E. coli	< 100
Yeast	< 5000
Mould	< 100

Figure 2: Pipeline water biofilm



Strategies for optimizing water quality:

There are four commonly used methods to manage biofilm threats in poultry drinking. The first addresses pathogens that enter the bird through contaminated water, while others focus on preventing pathogen intake.

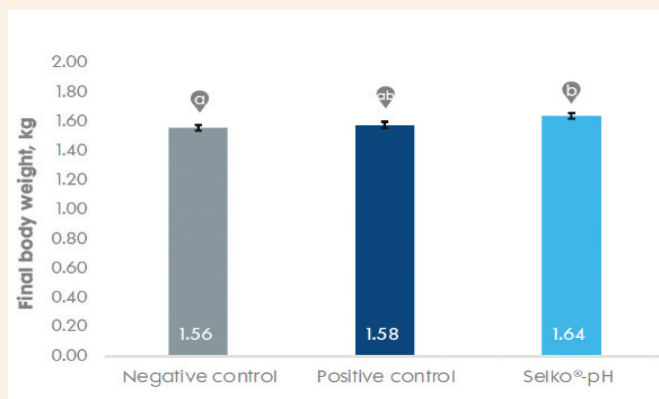
1. Acidification supports digestion

Providing a level of protection against pathogens that enter the bird via the biofilm, acidification helps control water and stomach microbes while reducing pathogenic bacteria in birds' intestines. Water acidifiers reduce the pH of water to less than 4.5 a level at which many pathogenic bacteria struggle to survive. Low pKa (strength of an acid) and undissociated organic acids reaching the stomach may also help control gram-negative bacteria ingested through contaminated feed or fates. These organic acids may deliver antimicrobial efficacy in the acidic stomach region as they pass through the walls of bacteria and fungi, altering their metabolism.

As a low pH is required for the digestion of most plant- and animal-derived proteins, organic acids can help assure less undigested protein reaches the hindgut, potentially reducing the threat of dysbacteriosis. **Selko pH** a blend of organic acids may be worth considering when the objective is to combat biofilm and improve animal digestion, gastrointestinal microbial balance or animal performance. Selko-pH improved the zootechnical performance of broilers and could be a suitable alternative to in-feed AGPs to maintain growth performance. (Table. 3 & Fig.3)

	Application Rate
Negative Control* ¹	-
Positive Control* ²	50 ppm
Selko pH**	1L/1000L water

Treatment Table.3



* Water pH:7.80

** Water pH:3.42

- Daily stepwise approach: day 1, Day 2, Day3:0.8 L/1000 L water, >4 days:1 L/1000 L water
- BMD (bacitracin methylene di salicylate) in feed

Fig.3 Final body weight (83% confidence interval as error bars) of broilers receiving an antibiotic growth promoter (AGP) in feed (positive control) or Selko®-pH in water on day 35. Columns with different superscripts (a,b) are significantly different ($p < 0.05$)

2. Flushing pipeline

Clean drinking water begins with flushing. The system should be flushed with clean water between bird cycles and after any treatment, such as vaccines, antibiotics or vitamins delivered through water. As disease risk is highest during a bird's first week, it is advisable to flush systems at least twice during the first week of production. Flushing with clean water loosens substances that can contribute to biofilm and washes away buildups that can clog equipment. High-pressure flush (2 to 3 bars/units) should be applied during the flushing process.

3. Disinfection with Hydrogen peroxide

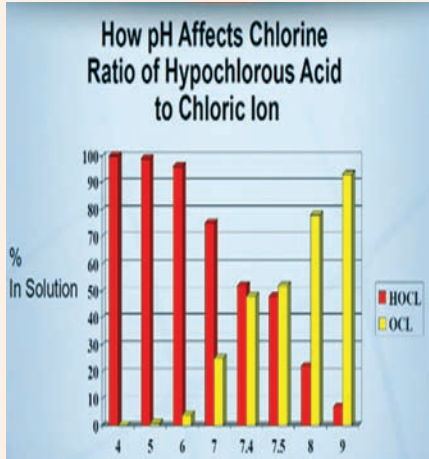
A simple and effective disinfectant usage between cycles like hydrogen peroxide will work very well in killing many bacteria and removing biofilm buildup. It also helps to prevent biofilm formation to some extent. Applying the proper concentration of hydrogen peroxide (35 % conc.) with 1-3 % water solution and allowing adequate treatment time is important to achieve desired disinfection results. Hydrogen peroxide works best for disinfection purposes and not for regular practice or as a substitute for water acidification.

4. Chlorination as water sanitization approach


Chlorin can be used as a maintenance disinfectant during the production cycle. Flushing is the first step in the disinfecting process, followed by chlorination. Generally, a concentration of sodium hypochlorite at 15% (100 to 150 mL/1000 L water) or chlorine dioxide applied at 0.2 to 0.4 mg/L water is recommended. The target level of residual free chlorine is important and should be between 2-3 ppm or oxidative reduction potential (ORP) in the range of 650

to 700 millivolts. Chlorination becomes even more effective when combined with a proper approach to acidification for effective killing bacteria.

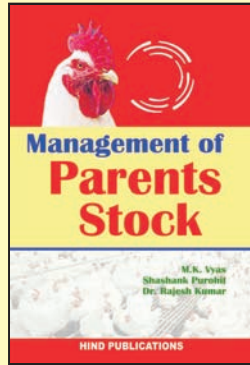
Fig. 4: pH dependent effectiveness of free chlorine



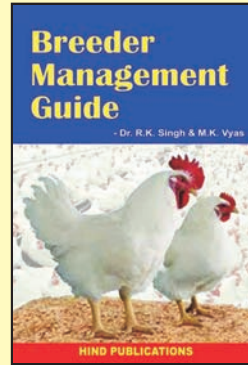
Conclusion

Poor water quality can lead to increased water microbial growth which impacts bird gut health and builds up biofilm inside the drinker pipeline. A regular sanitation program on farms will help to improve water quality. The microbial, chemical, and physical quality of water should be monitored regularly or periodically. A good pipeline cleaning program should be in place to increase the shelf life of pipelines and to prevent the formation of biofilms. A water sanitation cum acidification protocol should be in place for improving the quality of water that has been provided to birds and for optimizing their gut health conditions. Selko pH when applied in the right dose in the drinking water of poultry, improves the overall bird performance and can serve as an effective product in antibiotic-free rearing practices as well. 

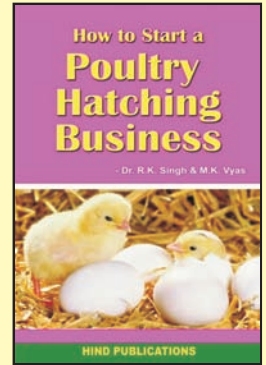
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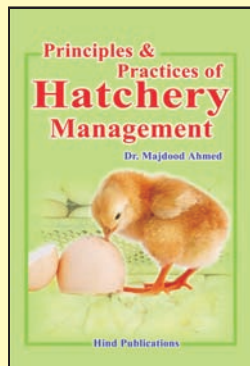
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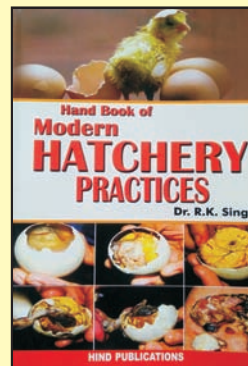
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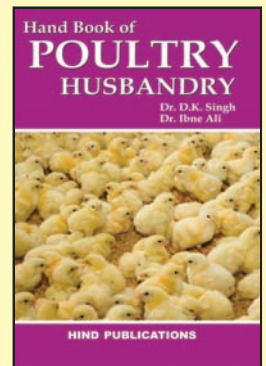
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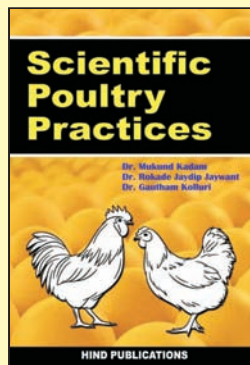
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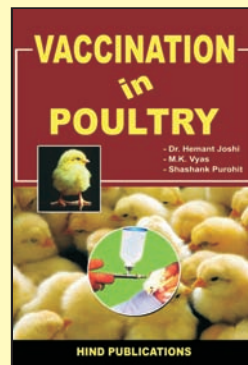
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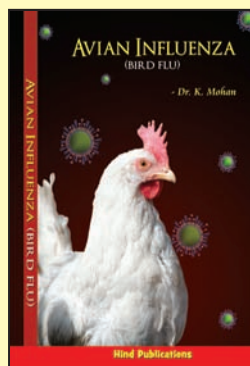
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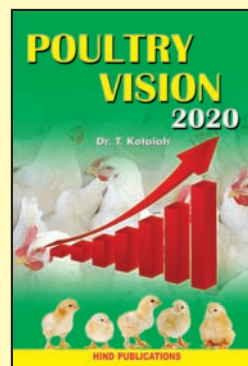
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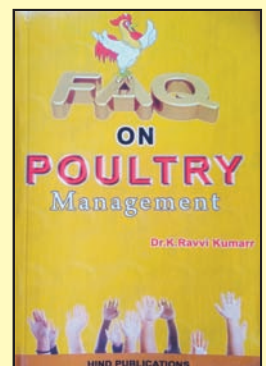
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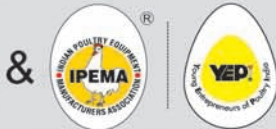


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How to compare different phytases for use in poultry feed

LODE NOLLET, GLOBAL PRODUCT MANAGER, HUVEPHARMA

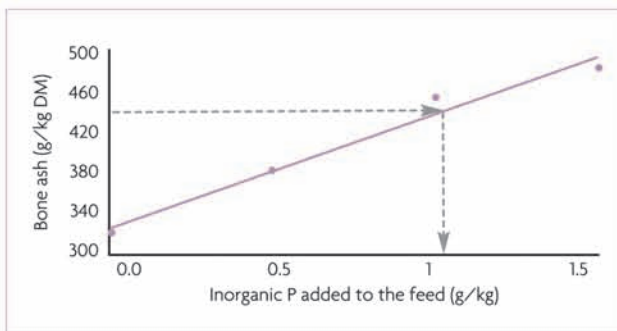
Exogenous phytase is added to poultry feed to liberate phosphorous (P), bound as phytate in raw materials, with the aim of lowering feed costs by reducing the amount of inorganic P added to the diet and having a degradation of phytic acid, known as an anti-nutritional factor in feed. Both actions lead to an improved poultry performance.

COMPARING PHYTASES: bone ash and digestibility studies

In order to compare different phytases on their potential to release P from phytate, trials are often conducted by adding the phytase at different inclusion levels to a P deficient diet. Technical performance is measured alongside parameters related to P digestion by the animal. This can either be the measurement of bone ash or by calculating a P digestibility value.

In the bone ash method, a feed deficient in P is fed to the animal. This leads to poor bone formation, substantiated by a low bone ash content. Adding inorganic P to the feed (MCP or DCP) leads to a reduction of the P deficiency, resulting in a better bone formation & higher bone ash in the bird (Fig. 1).

Fig. 1. Correlation between phosphorous in feed and bone ash, and estimation of P equivalency for a phytase based on bone ash (arrows).



This way, a 'calibration curve' between P added to the feed and bone ash is produced. Adding a phytase at a certain level to the P deficient feed will also reduce its P deficiency due to the liberation of P from phytate, leading to a higher bone ash content. With the latter value, and using the calibration line, the equivalent P (from MCP or DCP) value can be estimated for this phytase (see arrows in Fig. 1).

Alternatively, P values of a phytase can be estimated from digestibility studies, similar to trials conducted for protein digestibility.

In brief, P intake in the bird is measured, while P excretion (in manure) or P levels in the end part of the intestine are also determined. Based on these values, and using an indigestible marker in feed, the amount of P retained or digested by the animal can be calculated.

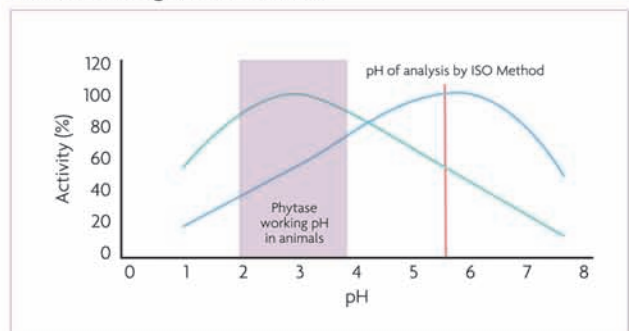
Adding a phytase to this feed will reduce the P level at the intestinal level and in faeces, which allows the calculation of a digestible P value for the phytase.

Based comparisons based on equal FTU per kg of feed inclusion. The way to determine the levels of different phytases to be included in the feed in order to compare them can already skew the outcome of the trial. In comparative trials, it is often seen that the activity of the different phytases is 'quantified' using the official method (ISO 30024:2009) expressed in FTU per gram pure phytase product.

Based on this analytical result, the different phytases are then dosed to reach a certain inclusion level, for example, 500, 1000 or 1500 FTU per kg of feed. However, this is not the correct way, as explained below, as every phytase has its own pH profile.

The ISO method is measuring the activity of the phytase at pH 5.5, while it is common knowledge that phytases need to work at levels between pH 2 and pH 4 (Fig. 2). The phytase indicated in blue in Fig. 2 has a pH optimum at 5.5, while the phytase indicated in green has pH optimum around 3.5, meaning that the latter will perform better in the animal.

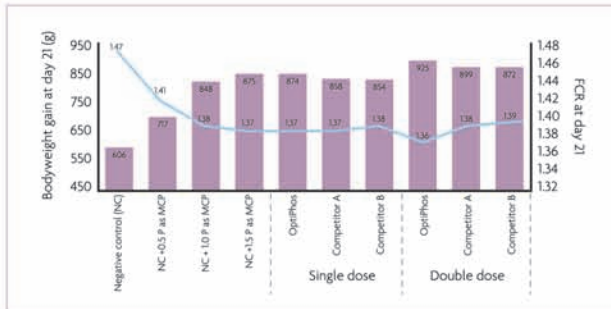
Fig. 2. pH profile of two phytases – pH area at which phytase needs to work in the animal, vs pH at which phytase activity is measured using the ISO method.



When the activity of both phytases is determined by the ISO method (at pH 5.5) it can be seen that the blue phytase will have a higher activity (for instance 10,000 FTU/g), while the green phytase has a lower activity at this pH (for instance 5,000 FTU/g).

According to this trial protocol, one should then add 50g of the blue phytase, but 100g of the green phytase per kg of feed in order to reach 500 FTU/kg (pH 2 to 4; this is the green phytase) and a lower activity measured at pH 5.5.

Fig. 3. How to set up a phytase trial with the appropriate inorganic controls and different phytases at inclusion levels proposed by the supplier.



HOW TO DO IT BETTER

From a commercial point of view, the main question for the feed industry is: how many grams of a commercial phytase product, with a certain declared activity, with a certain claim for P and with a certain price, are comparable?

Indeed, every phytase has its own phytase unit based on its own analytical method, and this phytase unit corresponds to a certain P or dig. P value declared by the supplier. For instance, a trial could be set up in which a feed, not deficient in P (= positive control) is reduced in P by 0.5, 1.0 and 1.5g/kg (negative controls). To these feeds, each of the phytases is included at the supplier recommended inclusion levels to compensate for the 0.5, 1.0 and 1.5g reduction.

By doing so, it can be validated, based on technical performance, bone ash analysis and/or P digestibility, if the matrix value for P proposed by each phytase supplier is correct. At the same time, all phytases can be compared on technical performance, including economic performance, as these are the drivers for the correct choice of a phytase.

It should, of course, also be clear that when comparing phytases, the same form (liquid, granular or coated) should be used. It is well known that coatings might hinder the release of a phytase, which can impact its P release from phytate. As phytate degradation needs to take place in the first part of the intestine (gizzard), a reduced release of phytase might impact its effect.

CONCLUSION

It is quite clear that the set-up of trials to compare different phytases needs to be done properly in order to provide practical answers to the nutritionist. This means comparing different phytases at their recommended inclusion levels, taking into account their proposed matrix values for phosphorous and their price, and not based on their FTU activity measured at pH 5.5. In this way, an easier and more correct comparison can be made based on the technical and economic performance obtained.

To know more, please contact Huvepharma technical team



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Shri Shirish Dhopeswar is honoured with Industry ICON AWARD



Shri Shirish Dhopeswar, Managing Director- Dhopeswar Engineering Works has been honoured with Industry ICON AWARD

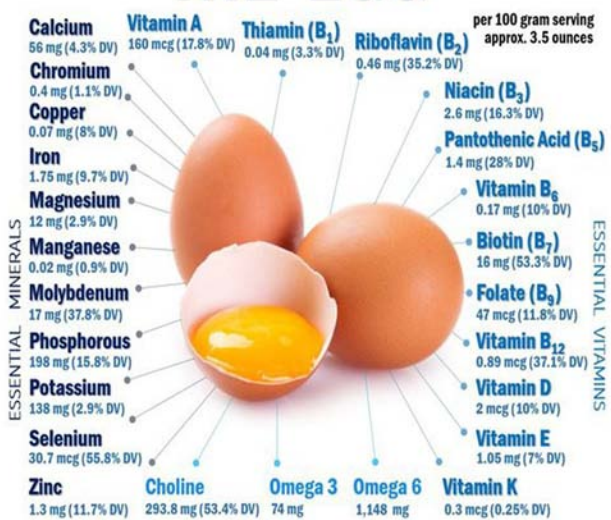
at IMSACON programme in Mathura Veterinary University.

The ICON Award was presented by Vice Chancellor of Mathura Veterinary University in the presence of ICAR directors, doctorates, eminent Scientists in Poultry and Meat sciences on 26th September 2024. Shri Shirish Dhopeswar is a pioneer in manufacturing of poultry processing plants and poultry waste rendering plants in India and has exported its products in over 24 countries. Let us join all to congratulate Shri Shirish Dhopeswar on achieving yet another feather in his cap.

Nutrition Facts

THE EGG

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RDA's are based off the Recommended Daily Allowance. Per the USDA, eggs are only missing vitamin C (salmon, liver, pork belly).

Source: USDA database

www.nutritionwithjudy.com



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38th Edition of SPACE 2024 Exhibition from September 17 to 19, 2024 in Rennes, France, Resounding Success – Ricky Thaper

The **SPACE Expo** in Rennes, France, a leading platform for innovation and excellence in Poultry, Aqua, Dairy & Livestock farming, with more than 1,400 exhibitors from different countries shared their expertise and innovations focusing on energy conservation & production, the poultry, cattle, the pig sectors and animal nutrition. More than 1,15,000 French and International visitors from over 122 countries visited this important poultry and livestock exhibition over the three days. The business visitors were happy and satisfied as they find new partners and discover innovations, with the aim of contributing to food self-sufficiency in their home countries.

Each edition of SPACE Rennes covers the full spectrum of products and services, from veterinary equipment, feeding stuff and animal breeding. Additional value derives from the educational program. SPACE 2024 developed the political dimension of



discussions with livestock sector stakeholders. These visits reinforce SPACE as a platform of expression and discussion to advance the major issues regarding the future of the livestock sectors.

Mr. Marcel DENIEUL, President of SPACE said SPACE is here to give its exhibitors the chance to present their products and solutions to its visitors and visitors will therefore be able to discover new products and existing solutions, compare the various options available, get advice from experts to help them to make the right choices and plan their investments with all the information they need at their fingertips. SPACE

served as an observatory for international agricultural policy and provided its participants with solutions and ideas to help them achieve their goals, thanks to its technical expertise, innovations and conferences.

According to Ms. Ane Marie QUEMENER, General Commissioner of SPACE, in 38 years, SPACE has become an essential event for all. Created by the leaders of the agricultural organizations, it is designed to be a place to meet debate and exchange ideas, for all farming related professionals. Ms. Ane Marie QUEMENER added that the efforts and hard work by SPACE Team has given excellent results.





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[#]1 FCR point represent third/last decimal point of 1000

*Majority of field trials were conducted at same farm with multiple sheds in integrations across various geographical locations and at different time of the year. Some of the integrators were generous in sharing complete production indices while others communicated the summary of the trial results. In the field trials, Improval™ MS was compared with antibiotic/probiotic/antibiotic + probiotic/probiotic + prebiotic control. Detailed reports available on request.

At Biochem booth had good interaction with Dr. Sana Makhoulf. Biochem Company headquarter is located in the northwest German town of Lohne, supplying high quality feed additives for poultry and livestock. As a global company, Biochem feed additives are characterised by efficiency, quality and sustainability. From intestinal health, mycotoxin management, feed safety and nutrient efficiency to immune stimulation Biochem offer solutions to animal nutrition and animal health. Dr. Sana Makhoulf told that more than 200 employees dedicate their knowledge and skills in development, production, registration, marketing, logistics, and sales departments. Biochem operate globally with more than 50 retail partners and 16 subsidiaries on four continents. With more than 360 experienced employees from 30 nations, Biochem team in constant contact with farmers, the feed industry, universities and veterinarians. Dr. Bhaskar Choudhry is heading the Biochem business in India which has good growth in terms of volumes and sales under Dr. Bhaskar leadership.



At SKA Poultry Equipment booth, we had good interaction with Mr. Massimo Ubiali, CEO. Mr. Ubiali is a dynamic leader with a strong commitment to helping customers adopt sustainable solutions for the industry through high-quality equipment. Mr. Ubiali said he has a clear vision to expand SKA's business across the region and elevate the company to new heights, all while staying true to its core principles and values. Mr. Ubiali firmly believes in empowering individuals to embrace entrepreneurship within themselves. He updated that India is a very potential market for them and their company look forward to fostering partnerships and continuing the exchange of ideas for the advancement of poultry welfare and Sustainability in the region. Recently Mr. Rajendra Rawat has joined SKA Poultry Equipment, Italy for South Asia Region. Mr. Massimo extended invitation to Indian Delegation to visit their manufacturing facilities in Italy.



It was nice to meet and interact with Dr. Nemanja Todorovic, Chief Business officer, NU.ANCE Biotechnology and Ms. Solene Gillingham, Marketing and Commercial Officer at their booth. NU.ANCE Biotechnology is a dynamic Swiss-based biotechnology company, founded by the group of entrepreneurs, specialized in development and commercialization of innovative feed additive products, merging expertise in technical and scientific knowledge. At NU. ANCE





Biotechnology we are committed to providing high quality feed additive solutions said Dr. Nemanja Todorovic, Chief Business officer. With the recent acquisition of Global Nutrition International, has added a French manufacturer of technological liquid and solid feed additives to our portfolio. This strategic move significantly contributes to increasing range of additives developed at the highest standards of quality and effectiveness to meet our customer needs. Mr. Joginder Singh, Business Director, is very efficiently heading the NU.ANCEB Biotechnology business in India.



Ms. Cecile BERTHIER, International Press and Exhibitors Information, SPACE informed that Poultry, Dairy and Aqua farmers working in all types of animal production were able to enjoy the Expo. The top buyers program run by the Business France as a part of the “Export Begins in France” project had welcomed major International Delegates from China, Senegal, Togo, Egypt, Iran, India, Kenya, Angola, Saudi Arabia, Pakistan, Mexico, South America besides European Union.



At AB Vista booth with Mr. Fernando Garcilopez Perez, Business Manager. AB Vista is a global animal nutrition technology company offering pioneering products and technical services to the global animal feed industry. Its mission is to advance nutrition through scientific research and ‘feed intelligence’. AB Vista has grown to be a top three player in feed enzymes, specialising in innovative feed additives, solutions, and services for all species. In India, Mr. Atmaram Yadaym General Manager, South Asia is heading AB Vista business very perfectly and efficiently.



A series of conferences, debates and seminars that took place during the three days gave this year event a new dimension, as poultry and livestock farmers were able to express the needs and expectations, in line with the ambition of the creators of SPACE. Innov’Space label has been a great opportunity to publicise and promote novelties in the sector. This year 48 products, equipment or services earned the esteemed Innov’Space awards.

During SPACE Expo, it was nice to interact with Mr. Nipun Gupta, CEO, Dr. Paolo Doncecchi, CCo and Mr. Patel Kotula from Innova Biotechnology, Poland, focusing on production and marketing of innovative non-antibiotic products to control bacterial pathogens in environmental, food processing, and medical settings. We shared views on the antimicrobial solutions which

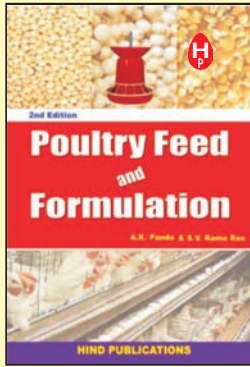
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are available or being launched based on the page and anti-microbial peptide technology platforms of Innova Biotechnology and discussed about the future of Antimicrobial Peptides (AMPs) that work by targeting the cell membranes of pathogens, making it significantly harder for these pathogens to develop resistance.

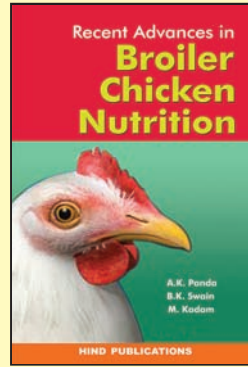
While interacting with exhibitors, they rated SPACE as very high quality trade show. According to Amandine LEROUX, International Development, SPACE, Exhibitors and International Visitors had access to International Club which had all facilities of translators, business meetings and refreshments for the international visitors.

The SPACE was again a springboard for employment and international trade thanks to the job-dating events organized by APECITA, and more than 800 Business to Business meetings organized by Enterprise Europe Network between exhibitors and international investors said Ms. Chloe LETELLIER, Communication Press, SPACE. For foreign visitors, visits to poultry, dairy & sheep farms and agro industrial facilities were arranged. These tours were supported by ADEPTA and Ministry of Agriculture and Fisheries.

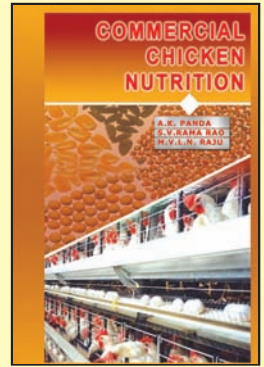
International delegates visiting SPACE Expo appreciated the arrangements at Expo by the organizers especially at the International Club. The meticulous planning, dedication and tireless efforts of team SPACE Rennes makes SPACE Exhibition one of the biggest Poultry & Livestock Exhibition in this planet.



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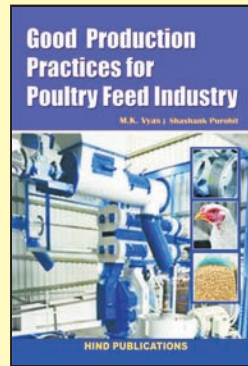
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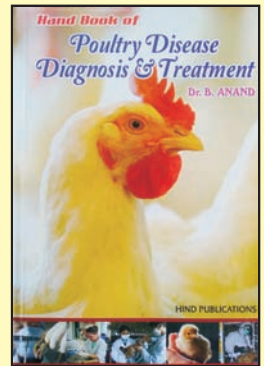
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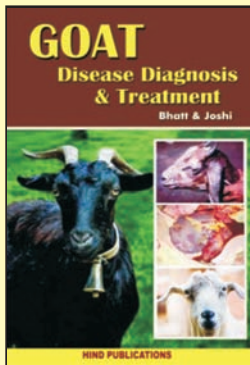
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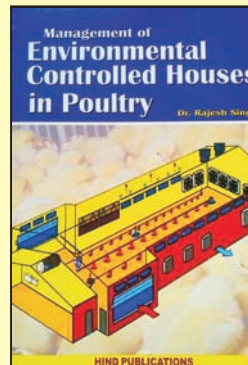
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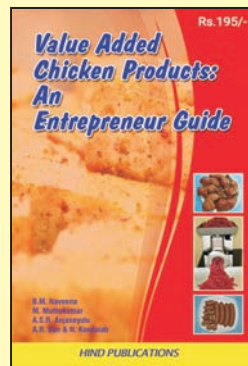
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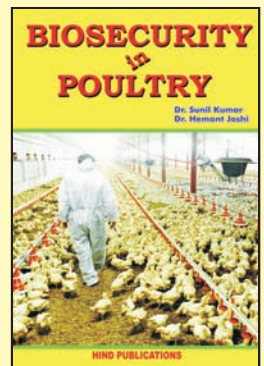
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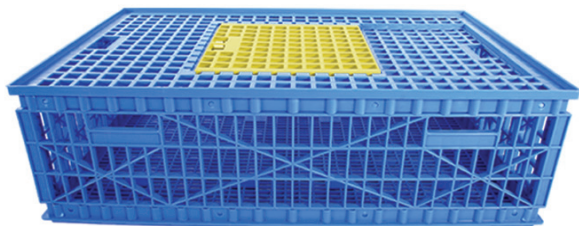
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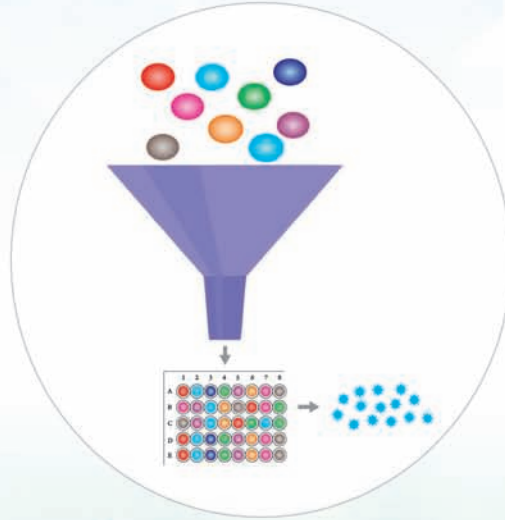
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