

APRIL - JUNE 2023

LIVESTOCK & POULTRY

MIDDLE EAST & ASIA

**POULTRY
RESEARCH**

**POULTRY
BEDDING**

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SYSTEMS**

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LIVESTOCK & POULTRY

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News

NEW! HORTI AGRI NEXT TO JOIN VIV MEA 2023 IN ABU DHABI!

VIV MEA, the international trade show from feed to food for the production & processing of poultry meat, eggs, fish, and dairy, in the Middle East and Africa, returns for its 4th edition 20-22 November 2023, in Abu Dhabi. VIV MEA brings together the livestock world with 500+ global and regional suppliers from the entire supply chain of all animal species production. Strongly business-driven, with a clear focus on innovation, technology and scientific research, VIV MEA is by far the top show for the animal husbandry industry in the whole region since 2016 when the first edition took place.

Parallel to VIV MEA 2023, two new concepts are showing up to complement a rich portfolio: HORTI AGRI NEXT (HAN) MEA 2023. This new co-located show

will bring for the first time an array of exhibitors and brand names from the horticultural, agricultural, and plant-based protein production and processing industry, in the heart of the Middle East. The first edition of HAN MEA aspires to be an international platform for all professionals in the agri-business in the region that will bring new products, innovations, and technologies to an ever-growing audience.

The Abu Dhabi Agriculture & Food Security Week (ADAFSW) was launched for the first time in 2021 by the Government entity Abu Dhabi Agriculture & Food Safety Authority (ADAFSA). It has since its launch been recognized as the largest event of its kind in the region, bringing together farmers and growers, food producers, policy makers, scientists, and investors with the ultimate goal

of moving forward in sustainable agriculture and food security.

Following a valuable first edition, ADAFSA announced a cooperation with VNU Europe, the organizer of the VIV worldwide series of events - including VIV MEA, to bring the Abu Dhabi Agriculture & Food Security Week to the next level. Within this concept, there is no better timing and stage for the launching of HORTI & AGRI NEXT MEA exhibition that will be covering – together with the well-established VIV MEA – the entire AgriFood supply chain, both horizontally and vertically.

VNU Europe invites all professionals in the field to save the date for an event of business networking, knowledge and future-focused discussions shaping the future and new standards in the agri-food production.

ADAFSA CONTINUES PROGRESS IN BREEDING RESILIENT EMIRATI HONEYBEES



With the support and patronage of His Highness Sheikh Mansour bin Zayed Al Nahyan, Vice

President of the UAE, Deputy Prime Minister, Minister of the Presidential Court, and Chairman of the Board of Directors of Abu Dhabi Agriculture and Food Safety Authority (ADAFSA), ADAFSA has launched an ambitious programme to develop and sustain beekeeping and honey production in Abu Dhabi. The programme is based on scientific and applied studies and research to develop the best methods and practices suitable

for the UAE environment.

In celebration of World Bee Day on 20 May, ADAFSA has announced the commencement of the eighth-generation queen production for the Emirati bee breed. Developed as part of the ongoing project to enhance beekeeping and honey production, this initiative aligns with the theme, Bee engaged in pollinator-friendly agricultural production, for this year's World Bee Day.



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EVONIK STRENGTHENS COMPETITIVENESS OF ITS ANIMAL NUTRITION BUSINESS LINE

Evonik is transforming the operating model of its Animal Nutrition business to further increase its customer focus, ensure competitiveness and enable further profitable growth. Moving forward, the amino acids business and the specialties business will operate separately and according to different models - in line with their respective requirements and market conditions.

Additionally, Evonik is optimizing the production setup for the manufacture of MetAMINO® (DL-

methionine) at its three world-scale production hubs and improving the ecological footprint.

These measures to adjust operating models and optimize production will result in an annual cost savings of €200 million with initial savings being realized in the current fiscal year. The full amount will be reached in the 2025 fiscal year. This will also include a reduction of around 200 jobs worldwide. The exact details are still being determined.

"We are systematically

implementing a plan that will develop our Animal Nutrition business, so it continues to grow and succeed in our markets," says Johann-Caspar Gammelin, President of Evonik's Nutrition & Care division.

The strengthened competitiveness of Animal Nutrition will secure its role as strong and important cash generator for Evonik.

Animal Nutrition will be run in two distinct operating models: one for its amino acids and one for its specialty nutrition business.

NEW C-LINE FOR FARMS OFFERS SAFE, LOW-TOUCH, EFFICIENT GRAIN TRANSFER

Ag Growth International (AGI) has announced its new C-Line permanent handling grain system for farm use. Made in North America, the C-line offers growers the convenience, efficiency, and speed of no-touch permanent grain handling as experienced by commercial grain operations.

"Without a doubt, the agricultural work force continues to shrink. This is an issue for busy growers, who face increased pressure to

do more with less. We are excited to launch the C-line permanent grain handling system for farm and light commercial use," said David Wernsing, AGI Senior Director of Global Product Management for Permanent Handling Products. "This system is engineered to meet AGI's highest manufacturing standards, and, most importantly, delivers virtually hands-free efficient grain transfer against the farm's high-capacity, seasonal harvest needs."

The C-line for farms is the latest addition to AGI's variety of permanent and portable grain handling offerings. The low-touch permanent grain handling system can move whole grains up to 10,000 bushels per hour (bph). The C-line's simple plug-and-play, modular structure is engineered for speed. Its design enables quick assembly, reduces overall installation costs, and avoids costly grain delivery bottlenecks at harvest.

The system components complement AGI grain storage solutions and accessories:

- The C-line bucket elevator handles whole grains up to 10,400 bph with discharge heights to 150 feet.
- The en-masse chain conveyor delivers up to 11,000 bph with lengths up to 150 feet in horizontal arrangements or at slight inclines.
- The bulk-flow chain conveyor moves whole grains up to 11,000 bph in inclines up to 45 degrees.



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The undisputed world leader in the beef sector, the SOMMET DE L'ÉLEVAGE is now pursuing a new objective for its 4th decade, to become THE world's #1 trade show for sustainable ruminant farming from 03 to 06 October

at Clermont-Ferrand, France.

Based in the centre of France, the SOMMET DE L'ÉLEVAGE is both an exceptional showcase of French know-how in terms of animal production and genetics and an unmissable event for the

agricultural supplies and farm machinery industry.

But the SOMMET DE L'ÉLEVAGE, is also a pragmatic and committed response to the major challenges facing farming tomorrow!

Animal welfare, organic farming, sustainability, energy transition, sourcing locally, farm transfer to new entrants, etc. are some of the themes that are widely discussed during the 4 days of the show.

The 2023 edition will host the LIMOUSIN beef breed and the BROWN SWISS dairy breed national championships. Two breeds that are well represented throughout the world!

In 2022, 105,000 visitors including 5,000 international visitors from 80 countries strolled down the aisles during the four days of the SOMMET DE L'ÉLEVAGE. In terms of visitor numbers, this was a record!



AVIAGEN CONTRIBUTES TO THE UNIVERSITY OF ARKANSAS SYSTEM DIVISION OF AGRICULTURE POULTRY SCIENCE SMART FARMING RESEARCH FACILITY

Demonstrating an unwavering commitment to the education of future generations, Aviagen® has made a significant contribution toward the development of a new Poultry Science Smart Farming Research Facility at the University of Arkansas System Division of Agriculture. Called the "poultry house of tomorrow," this state-of-the-art facility, equipped with the latest technological advancements in the industry, will facilitate cutting-edge broiler research. The house is equipped with innovative technologies to collect real-time data for bodyweight, feed and water intake and environmental conditions. This "smart farming" data will be routinely electronically transferred to a cloud-based data storage service, allowing rapid

and remote access through an app. House construction involved a highly successful collaborative effort with several allied poultry industry companies who provided cash and in-kind donations. Additionally, Michael Czarick, Senior Public Service Associate, Poultry Science, at the University of Georgia provided invaluable support in designing the unique house environmental control concept, testing the associated installed equipment and providing training to Division of Agriculture farm staff.

Aviagen's Group Vice President of Global Technical Operations Dr. Bryan Fancher worked closely with the University of Arkansas System

Division of Agriculture to help make this innovative project become a reality, and was honored to be invited as a speaker at the grand opening ceremony on May 15. The Poultry Science program holds personal significance for Dr. Fancher as the University of Arkansas is his alma mater, where he completed a Bachelor of Science in Poultry Science and Master of Science in Animal Nutrition.



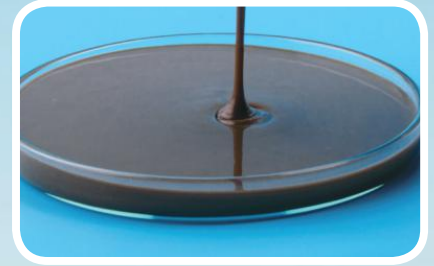
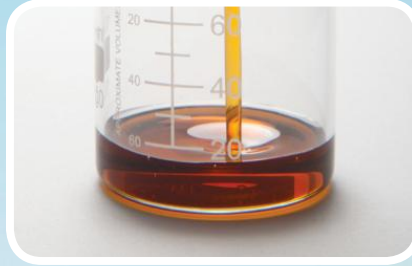
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COBB EUROPE AND SOVEREIGN FOODS EXPAND DISTRIBUTION OF COBB500™ IN THE SOUTH AFRICAN MARKET

Cobb Europe and Sovereign Foods, one of the largest broiler integrators in the Republic of South Africa, have signed a multiplier agreement to expand the distribution of Cobb500 products in the South Africa markets, the Republics of Namibia and Lesotho and the Kingdom of Eswatini markets. This agreement demonstrates that Cobb continues to deliver on its mission of providing affordable, healthy and quality broiler breeding stock to help feed a growing world.

Sovereign has a long history of production and growth in the South

African market. With operations in three provinces, Eastern Cape, Gauteng and Limpopo, Sovereign is an influential leader in the poultry industry and the ideal partner for Cobb in South Africa.

"This new agreement not only reaffirms the excellent relationship between our companies, but it also strengthens the commitment from both parties to make the distribution of Cobb products in South Africa a success," said Roy Mutimer, Vice President of EMEA and APAC.

"The Cobb500 broiler is in high demand due to its efficiency in

the South African market, so we have no doubt Cobb500 will be welcomed by all chick producers and broiler companies."

"Sovereign is proud to become the Cobb multiplier after having signed the agreement and is looking forward to growing the Cobb brand in the target markets. Sovereign believes that the Cobb product has great potential to expand its market share and is excited about working with our partners from Cobb EU on this opportunity," said Chris Coombes, CEO, Sovereign.

OPTICAL SORTING IS TRANSFORMING PET FOOD

Dutch pet food suppliers, Vobra Special Petfoods, has enhanced the safety and quality of their product with the new addition of a SORTEX FB machine to bring the highest quality kibble to the pet food market.

The rising quality demands for the pet food market require innovative approaches to meet and surpass customer and regulatory standards. One company that has always been ahead of the game when it comes to quality is Dutch pet food supplier Vobra. Operating since 1932, the

company supplies quality dog and cat food to Vobra-owned brands and private labels and is active in over 35 countries. Recognizing the need to stay ahead of the market, Vobra invested in a SORTEX FB machine, the leading optical sorter for kibble quality.

The pet food market requires a homogeneous and uniform kibble size and shape, combined with a zero tolerance for foreign materials. Vobra's kibble is made of natural ingredients and processed to the markets required specifications using a Bühler Extruder and checked by Bühler's SORTEX FB optical sorter.

SORTEX inspects every kibble for quality, even at 5 tons of kibble per hour

With a throughput of 5 tons per hour, Vobra needed a sorter that could ensure the quality of every kibble, even with the demands of 180,000 kilos of dog and cat kibble daily. With SORTEX they got exactly that. The high-definition cameras

inspect every single kibble, removing defects like cross-contamination, oversized/undersized kibble, and small pieces of bone as well as any foreign material with pinpoint accuracy. This ensures a final product that flawlessly passes regulations standards. To confirm the reputation of SORTEX as a trusted brand that surpasses these standards, Paul Stoutjesdijk, Manager of Operations at Vobra, stated: "Our customers ask for the product that is processed by the SORTEX optical sorter."

In 2021 Vobra constructed a new factory at Veghel, taking the opportunity to evaluate its process line and recognize where improvements could be made, leading to the decision to incorporate the SORTEX FB alongside a Bühler extruder. Paul Stoutjesdijk continues by saying: "The setup of trials in England made us aware that this was the equipment we needed. Many international pet food markets now require a uniform kibble size and have zero tolerance for foreign material."



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ENIFERBIO RAISES €11M TO MAKE PLANET-FRIENDLY FUNGAL PROTEIN



Finnish biotech startup eniferBio has successfully raised an €11M series A funding round. The round was led by the Netherlands-based global aquaculture investment fund Aqua-Spark, with Tesi (Finnish Industry Investment) and Valio, Voima Ventures and Nordic Foodtech VC also joining the round. With the freshly raised funding, the company

will begin to scale up the production of its PEKILO® mycoprotein powder to thousands of tons per year and seek Novel Food approval from the EU and other markets.

The world faces the seemingly insurmountable challenge of doubling the protein supply by 2050 to answer the demand from a larger and wealthier global population, while simultaneously decreasing CO₂ emissions from the food value chain. The production of traditional animal- and plant-based proteins cannot be doubled without the planet boiling over, and the world therefore urgently needs novel innovative sources of protein.

PEKILO® is a fungus that, through a special fermentation process, can produce a dried powder rich in protein and has a vast variety of usage cases, such as pet food

and aquafeed. The process was originally developed by forestry industry scientists in the 1960s in Finland to produce cost-efficient animal feed protein from side streams of the pulp and paper industry.

Using the same, yet enhanced, proprietary technology and fermentation process, eniferBio can upcycle by-products from diverse agri-, food- and forest industry processes into its PEKILO® mycoprotein, which consists of up to 70% protein, 20–30% of good-quality fiber, about 10% of fats and minerals, and has a high concentration of vitamin B. The production process is efficient, uses very little water, doesn't require large land areas and does not cause eutrophication like traditional agriculture.

KEMIN AQUASCIENCE™ LAUNCHES PATHOROL™ FOR FARMED SHRIMP HEALTH IN MULTIPLE ASIAN COUNTRIES

Kemin Industries, a global ingredient manufacturer that strives to sustainably transform the quality of life every day for 80 percent of the world with its products and services, has launched Pathorol™, a shrimp supplementation product that improves the health of the hepatopancreas, an organ in the crustacean's digestive tract, for customers in India, Thailand, Vietnam, Indonesia and Singapore.

For shrimp to thrive in a farm-pond setting, maintaining healthy digestive systems is a key component in supporting good shrimp husbandry. Multiple agents contribute to slow or stunted growth in shrimp. Supporting a healthy digestive system is part of a multi-faceted set of tools producers can use to support healthy growth

rates in shrimp. By protecting the hepatopancreas and its role in the secretion of digestive enzymes, absorption and storage of nutrients, producers can encourage healthy growth and yield outcomes in their shrimp ponds.

Pathorol, a patent-pending product, was developed to support a healthy hepatopancreas and digestive system for shrimp and aid in maintaining healthy shrimp throughout their growth cycle. Pathorol is a unique blend of phyto-genic compounds that has been shown to enhance performance and productivity for pond-raised shrimp. By adding Pathorol to shrimp feed, producers can improve feed digestibility and growth performance and reduce size variability.

"Growth performance and productivity are essential for successful shrimp farming," said Leo Xie-Lei, President, Kemin AquaScience™. "To assist growers in overcoming challenges associated with maintaining healthy digestive systems throughout the growth cycle for farm-pond shrimp, we have launched Pathorol, an exceptional tool to aid in growth performance and reduce size variability for farm-pond shrimp. We believe the addition of Pathorol to shrimp diets will help producers achieve favorable performance parameters with their shrimp. We are thrilled to add this critical product to our portfolio, further showcasing our business unit's commitment to serving the global aquaculture industry."

HOMEGROWN 'AL ISLAMI FOOD' BREAKS NEW SKIES, CARVES A PLACE IN HISTORY BY SUPPLYING THE SPACE STATION WITH 'MADE IN UAE' FOOD

The Mohammed Bin Rashid Space Centre (MBRSC) has announced a historic moment as "Made in UAE" food successfully reaches the International Space Station (ISS) for the first time. Astronaut Sultan Al Neyadi and his fellow Expedition 69 crew members will now have the opportunity to savour the taste of home. The carefully curated selection includes a renowned Emirati dish, Chicken Saloona, produced by Al Islami Foods.

Introducing Emirati food to the International Space Station (ISS) not only highlights the unique culture and culinary heritage of UAE, but also emphasizes the significance of Real Halal food as an ideal selection. Al Islami was able to provide

astronauts with balanced nutritional food that embraces the cherished values passed down through generations while ensuring that they are easy to carry, store, and use in a non-gravitational environment.

H.E. Salem Al Marri, Director General of MBRSC, said, "The introduction of Made-in-UAE foods to the ISS signifies a proud moment for our nation, as it showcases the best of Emirati culture, culinary heritage, and entrepreneurial spirit. This achievement not only enriches the meal options available to astronauts but also serves as a tangible example of how international collaboration can bring diverse cultures together and create meaningful connections

in the field of space exploration. We are proud to share a piece of the UAE with the global astronaut community and look forward to further expanding our partnership with local manufacturers to extend the range of Emirati foods available on the ISS in the future."

MBRSC meticulously went through a selection process to identify suitable companies for supplying authentic UAE cuisine. After reaching out to nearly 20 manufacturers, Al Islami Foods, with its extensive heritage in providing Real Halal food products dating back to 1981 and expertise in manufacturing quality food over nearly five decades, was chosen to be part of this historic occasion.

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EDDY KETELS WILL STEP DOWN AS CEO OF ORFFA – HAIKO ZUIDHOFF APPOINTED AS SUCCESSOR

Eddy Ketels will step down as CEO of Orffa at the end of 2023. He will be succeeded by Haiko Zuidhoff, who will start in his new role as of 1 October 2023.

Eddy Ketels has been working for 35 years at Orffa. He became CEO in 2001. Under his leadership Orffa has developed from a local player, mainly focused on ingredients in Belgium and the Netherlands, into

a global innovative value-adding company having presence in the main feed producing countries, offering a balanced portfolio of feed additives.

Haiko Zuidhoff has worked in Asia for 25 years and moved back to The Netherlands in 2022. He most recently served IMCD as President for the Asia region, overseeing IMCD's vision, strategy and

accelerated growth through both organic growth and M&A. Prior to IMCD he served in various senior leadership roles at Trouw Nutrition Nutreco and Corbion. His knowledge and expertise will contribute to Orffa's strategy and vision to be a value-adding partner to the global animal production of today and tomorrow.

Haiko Zuidhoff will be based at Orffa's headquarter in Breda, the Netherlands.

BIOSECURITY EXPERTS LIVETEC SYSTEMS LAUNCH NATIONAL OUTBREAK PLAN FOR FARMERS AND BACKYARD BIRD KEEPERS

Preparedness protects poultry. As Britain's farmers count the cost of the worst season of avian influenza yet, Livetec Systems – the industry leader for livestock protection and biosecurity – has launched their National Outbreak Plan to help poultry farmers understand how to protect the health and well-being of their flocks.

The NOP is the first step toward more robust farm contingency planning and will help poultry farmers take a more preventative approach to safeguard their flocks and farm workers. As

the disease continues to spread at alarming levels amongst commercial, backyard and wild birds, contingency planning has never been more important.

Gordon Samet, Commercial Director at Livetec, said: "This is the worst season of AI the country has ever faced. It's only through increasing the standards of contingency planning everywhere, while applying more stringent biosecurity measures that seek to prevent AI, that we can be truly vigilant and mitigate the risks of avian influenza or other disease incursion to better protect

our poultry workers, livestock and farming communities as well as the UK population."

As suitable for backyard flocks as it is for

commercial producers, the NOP gives vital information for all poultry keepers to help them protect their birds and be prepared in case an outbreak of HPAI impacts them.

The Livetec National Outbreak Plan includes:

- A how-to guide for disease declaration
- Information reporting when zones are implemented
- Explanation of movement restrictions
- Movement licensing and their conditions of use
- Zone definitions and their requirements
- How to deal with the media
- Farming related support services and mental health planning
- A guide on how to change or update your CPH number
- Updates of the Governments exotic diseases control and AI policy
- An acronym glossary to quickly define key terms.



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mEATquality RESEARCH WITH MAREL PARTICIPATION

mEATquality is the name of a European research project in which Marel is a serious participant. For Marel, mEATquality is about the relationship between the consumer's perception of meat quality and the way chicken have been raised. For this, the research team will gather data from farm to fork. The meat processing stage will surely play a crucial role here. The aim is to develop innovative solutions, which take account of continually evolving demands from society, the environment and the industry itself.

Wageningen University & Research coordinates the European mEATquality project. Hans Spoolder, Senior Animal



Welfare scientist at WUR, is the coordinator. The project is part of the EU's Horizon 2020 program, which features a large number of research projects. The topic which they have in common is how to get the very best meat quality on the consumer's plate. In addition to other European universities,

leading meat quality laboratories, supermarkets, breeding companies and processors, Marel is involved in mEATquality as a supplier of equipment and technology. On behalf of Marel, R&D Director Johan Meulendijks is a member of the General Assessment Assembly.

NORWEGIAN SEAFOOD COUNCIL EMPHASISES IMPORTANCE OF QUALITY CONTROL IN AQUACULTURE

As the approval authority for Norwegian seafood exporters, the Norwegian Seafood aims to increase the value of Norwegian fishery resources. The leading producer of seafood globally, Norway continues to place salmon welfare at the forefront of its aquaculture infrastructure, using strict policies that maintain the quality and freshness of its

products.

The Norwegian Food Safety Authority serves as the knowledge hub on marine welfare, sharing the latest expertise and research on fish health with the country's aquaculture industry. The body also oversees regular training of staff working at every touchpoint of the aquaculture supply chain.

Salmon welfare can be affected by several factors, including nutrition, handling and transport. Norway's aquaculture sites are legally obligated to operate in a way that promotes and sustains long-term fish health, using

thoughtful cage design, high water quality, regular site inspections, and targeted feeding to raise healthy salmon in a clean environment.

Norwegian salmon feed regulations are established by the Ministry of Agriculture and Food and the Ministry of Trade, Industry, and Fisheries. Operating in alignment with the EU through the EEA Agreement, these regulations maintain the safety and quality of fish feed products, ensuring that they are natural, appropriately named and labelled, and gentle on the environment.

Local manufacturers will also often use alternative ingredients – like vegetable raw materials that limit deforestation and marine raw materials from sustainable fisheries – to foster their eco-conscious development of fish feed.



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SPACE 2023 - HIGH-LEVEL PARTICIPATION AND HIGH-QUALITY CONTENT

SPACE 2023 will take place from 12 to 14 September at the Rennes Exhibition Centre.

This 37th edition of SPACE will be dedicated to the dynamics of animal farming and will once again be a major highlight of the new agricultural season.

SPACE 2023 is preparing in a context of rising energy costs, of generational renewal, of unprecedented high prices for agricultural products, and of climate change. In such a shifting environment and in the face of the structural changes within our agricultural sector, SPACE is becoming an ever more essential event for all professionals to gather information, exchange ideas and find new synergies to continue to

develop and adapt animal farming in the regions of Western France.

The international context is also evolving significantly. The war in Ukraine has had a strong impact on the agricultural policies of countries that are dependent on Ukrainian and Russian supplies. The question of food sovereignty has become crucial for many countries, and particularly for developing countries. Our companies and organisations are well equipped to position themselves on these markets. The international scope of SPACE, which welcomes more than 120 countries every year here in Rennes, is a clear demonstration of our ability to offer solutions to this global food challenge. Many delegations from all over the world are expected to

attend again this year, in particular from Europe, the Middle East and of course Western and Central Africa.

The number of exhibitors registered at SPACE is always very high. On 16 May, almost 1,100 exhibitors from 36 countries, including 177 new ones (76 of which are international companies).

550 cattle of 13 different breeds will provide a continuous spectacle in the main ring during the three-day Exhibition. 200 sheep and goats of 11 different breeds will also be shown.

For several years, SPACE has been offering a programme dedicated to aquaculture. Last year, more than 100 aquaculture exhibitors took part in SPACE, offering solutions in: animal nutrition, equipment, consulting, research, genetics, etc. With the growing participation of companies from the sector (13% growth between 2019 and 2022), the Exhibition is continuing to expand in order to become a key event for French and international businesses in the aquaculture sector. Those interested in this sector at SPACE 2023 will find: a specific itinerary around the stands, two dedicated conferences and a specific visit for international visitors.



JAPFA DELIVERS 23,000 LIVE CHICKENS FROM INDONESIA TO SINGAPORE

Japfa announces the delivery of 23,000 live birds via sea to Singapore. The chickens were raised by PT Ciomas Adisatwa in Bintan, Kepulauan Riau. PT Ciomas Adisatwa is a subsidiary of PT Japfa Comfeed Indonesia Tbk, which in turn is a subsidiary of Japfa Ltd. This is the first time live chickens are delivered to Singapore from Indonesia. This shipment is a notable achievement and will serve to test a new important option to

supply fresh chicken to Singapore, with the birds transported live via sea and slaughtered in the destination country.

Tan Yong Nang, Chief Executive Officer of Japfa, said: "We are pleased to contribute to Singapore's food security strategy by providing fresh chicken to local consumers. As a leading industrialised agri-food player, with more than 50 years of experience in producing staple protein foods

in Asia, we can meet Singapore's demand and standards based on our attention to quality and our vertically integrated business model from poultry feed production and breeding to farming and food processing. This shipment is the result of the combined efforts of Japfa, Singapore and Indonesia's authorities, and we look forward to expanding further our contribution to feed Singapore consumers with nutritious proteins".

NEOGEN® LAUNCHES NEW ASSAYS FOR HISTAMINE DETECTION

Neogen® Corporation (NASDAQ: NEOG) announced that it has launched two new assays for the detection of histamine, Reveal® for Histamine and Reveal Q+ for Histamine.

Reveal and Reveal Q+ assays are easy-to-use lateral flow tests that utilize a simple water extraction method, providing results in a matter of minutes and eliminating the need to dispose of any chemicals, as is needed with other commercially available histamine detection methods, reducing testing time.

"These two new tests are an excellent addition to our portfolio of food safety testing solutions, helping keep consumers safe and healthy," said John Adent,

Neogen's President and CEO. "These rapid tests make it easy for producers and distributors to test for this toxin, backed by Neogen's reputation for providing accurate and reliable results."

- Reveal for Histamine (PN 9548) is a qualitative lateral flow assay intended for visual screening of histamine at 50 parts-per-million (ppm) in scombroid species of fish, such as tuna and mahi-mahi.

- Reveal Q+ for Histamine (PN 9549) is a quantitative lateral flow assay designed to be read on Neogen's Raptor® Integrated Analysis Platform. The assay provides quantitative results for histamine in scombroid species of fish and dry animal protein.

BASF AND SCHOTHORST FEED RESEARCH COLLABORATE

BASF launched Opteinics™ in 2021 to measure, analyze and minimize the environmental impact of animal protein, with an emphasis on animal feed production. Currently, the software offers modules for poultry production and has recently been extended with a module for dairy. As a fourth business model, layers will be launched by mid of 2023.

BASF and Schothorst Feed Research (SFR) signed an agreement granting SFR certain non-exclusive licensing rights to Opteinics™,

BASF's digital solution for environmental footprinting of feed and animal protein. SFR will integrate the digital sustainability platform Opteinics™ into its global animal nutrition consultancy services, thereby adding a new dimension focused on sustainability within its Advanced Feed Package. With the collaboration, BASF and SFR will support feed and animal producers to understand and reduce their environmental impact and contribute to a more sustainable production of feed and animal protein.

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BREED DIFFERENCES FOR TASTE AND HEALTH PARAMETERS IN CHICKEN

*Written by: Dr. T. Kotaiah,
Indbro Research & Breeding Farms Pvt.Ltd.,
Hyderabad, INDIA*

The first consideration of the consumer while deciding on eating food is TASTE. The family that goes out to eat, looks for a tasty food. The second thing the consumer looks in to the food is the Nutritive value, Hygiene and the Cleanliness. The third point of concern is the Price. When the prices of a particular food

item is discounted, the volume of sale goes up in the middle class and lower middle class segment. Meat being a choice food, the eating frequency and the quantity gets reduced once the prices go up very high. More and more middle class and lower middle class people will start eating non vegetarian food, once the prices go down. The frequency of purchase also goes up.

Different religions have their

preferences in eating non vegetarian food. Some do not eat pork. Some do not eat Beef. Chicken and eggs have no taboo. Poultry production is getting faster and more efficient, thanks to the technology engaged in the production.

The geneticists are selecting fast growing chicken every year for breeding and the weight gain is increasing. This is also noticed by the reducing number of days to get the same weight



while growing.

The nutritionists are devising better foods, feeding equipment and feeding practices to produce more and better meat from the same bird to get the maximum genetic gain expressed. This is by adjusting the nutrients but not by adding

performance enhancers as many think.

The concept of poultry health care is by preventive approach. Do not expose the bird to diseases in the short time of its life. Steps like isolated farms, "All in All Out" rearing, Gaps between the batches, absolute restriction of movement of visitors and dedicated flock wise work force prevent the entry of the diseases.

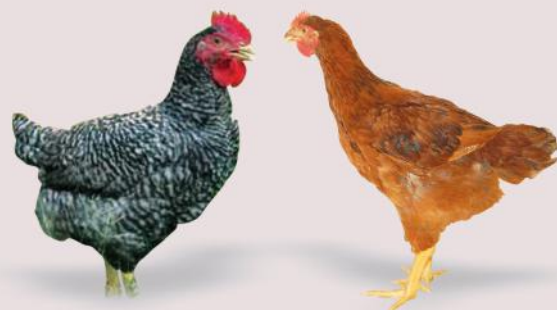
As a result, the hen is laying 330 eggs in 360 days of laying cycle. The breeders are working in the direction of keeping the birds for 560 days (100 weeks) to get 500 eggs.

The broiler bird of 2.0kilos is ready in less than 35days and in spite of increase in feed prices, the chicken prices have not increased that high as other meats. The chicken consumption has already overtaken the consumption of other meats all over the world.

CHICKEN VARIETIES

Many varieties of chicken are sold in the same area.

INDBRO COLOUR BROILERS



● Multi Coloured / Slow Growing ● Tasty & Healthy Chicken

The easily available and in large volumes is the BROILER chicken. White coloured birds with tender meat. Birds with short legs and broad Breasts. They are also called Double Breasted Broilers. Most of the broiler meat is sold without skin. These birds grown for short time are tender. We see large sized birds like 2.5 to 3kilos also when the birds are grown for more days due to market glut. The second type of birds, the consumers look for are Country chicken or Native chicken. These birds are generally look slender, tall without any fat. The meat is tough. Some people like to eat Native chicken with skin and

N=42 for broiler where as N=24 for all other genotypes and for all parameters. Parameters with different superscript varies significantly (P<0.05) within the row.

Genotypes/Parameters	BROILER	SLOW GROWING	DUAL PURPOSE	NATIVE	NATIVE CROSS	P value
Colour/appearance	6.8730.08 ^b	7.2730.13 ^a	7.0430.10 ^{ab}	6.8530.14 ^b	6.9530.12 ^{ab}	0.101
Flavor	6.6430.05 ^b	7.1330.13 ^a	6.8930.10 ^{ab}	6.8630.14 ^{ab}	7.0030.10 ^{ab}	0.018
Tenderness	6.7730.10 ^b	7.1930.11 ^a	6.9730.10 ^{ab}	6.6830.14 ^b	6.7730.212 ^b	0.035
Juiciness	6.7230.08 ^b	7.2130.11 ^a	6.9730.09 ^{ab}	6.6530.12 ^b	6.8130.12 ^b	0.005
Overall acceptability	6.7030.08 ^c	7.3230.10 ^a	7.0530.08 ^{ab}	6.8930.13 ^{bc}	6.9730.07 ^{bc}	0.000

The performance, carcass and meat characteristics of both the birds is as follows.

CHARACTERISTIC	SLOW GROWING BROILER	BROILER
NO OF DAYS TO 2KG WEIGHT	49	35
FCR (FEED CONVERSION RATIO)	1.8	1.6
MORTALITY	2.5%	5.0%
TRANSPORT LOSS	5.6%	6.7%
DRESSING PERCENTAGE	69.63%	72.56%
• BREAST MEAT	22.94%	29.15%
• THIGH & DRUMSTICK	27.51%	25.18%
WINGS	18.44%	12.47%
• WATER HOLDING CAPACITY	16.0%	14.25%
• FREE WATER	14.50%	11.27%
• MUSCLE FIBRE DIAMETER	57.50	64.16
• SHEAR FORCE VALUE	9.07	7.16
• MOISTURE	74.34%	67.52%
FAT%	7.01%	6.49%
PROTEIN	18.85	20.03
COLOUR	7.27	6.87
• FLAVOUR	7.13	6.64
TENDERNESS	7.19	6.77
JUICINESS	7.21	6.72
CHOLESTEROL CONTENT	39.58	35.33
COLOUR INTENSITY OF MEAT	DARKER	WHITE
• OVERALL ACCEPTABILITY	7.32	6.70
• OVER ALL ACCEPTABILITY OF RESTRUCTURED BITES	6.75	6.33
• SCORE OF UNTRAINED PANELISTS	72%	28%
• NO OF PANELISTS 168	121	47

The characters marked (.) differ significantly.

the skin burnt before the pieces are made. The consumer is ready to pay high prices for this niche item. The differences in prices is 3 to 4 times.

SLOW GROWING BROILERS

In advanced countries like Europe and USA, they found that the heavy breasted white meat is found to be tough with white stripes, condition called "Woody Breast". The taste of the broiler chicken is found to be bland (no taste). This characteristic came out in response to selection for fast growth. Scientifically, the bird puts on the muscle so fast, the blood vessels and blood supply does not cope up with the growth. The muscle meat is tightly knit, the gaps between the muscle fibres diminish and the "water holding capacity" goes down. The Poultry Producers now offer different broiler gaining weight slowly, called "Slow growing broiler". The slow growing broilers are genetically slow growing, taking 60 to 80 days to get 2kg weight. These birds are grown with more space. The chicken is found to be tasty with better water holding capacity. The altered meat, fat ration gives a different taste and the health parameters are considered to be more favourable.

N.R.C. PROJECTS

When we think of buying chicken, we see ...

INDBRO BROWN LAYER



• Prolific Layer of Large Brown Eggs 345 – 80 Weeks

INDBRO COLOUR BROILER PARENTS



• Slow Growing & Fits into Welfare Standards
• Female Parents Laying 225 Hatching Eggs
• Hatchability Over 85%

INDBRO ASSEEL



• Uniform Growth Sturdy Birds • Pea Comb • 100 Days
• No Fat-Healthy-Multi Coloured • Thin Legs • Tasty & Tougher Meat

1. BROILER – Started in 1970s, started growing in volumes. Never Looked back. Tender chicken with good nutritive value at a reasonable price. More and more shops are serving Broiler chicken in every street corner. More than 95% of the birds are alive before the consumer buys it. If a colony is coming up, place for chicken shop is planned by the builder in advance. Apprehensions on use of growth promoting medicines and chemicals.

2. SLOW GROWING BROILERS

– Getting popular as Welfare chicken in western countries. Supposed to be having tasty meat. Considered raised ORGANIC. Priced higher than broilers.

3. DUAL PURPOSE BIRDS – Male birds sold out by 8/9 weeks. Females lay eggs and sold at the end. Vanaraja, Giriraja, Rainbow rooster – Distributed under Livelihood mission.

4. NATIVE CHICKEN – Looks colourful, tall and egile. Grown for longer time and has tough meat. Availability is getting low and priced very high – nitch market.

5. NATIVE CROSSES – Availability of country chicken is low and priced high. Many country chicken crosses are being made available.

Basing on this knowledge, Indbro Research & Breeding Farms Pvt. Ltd ran two contract research projects with National Research Center on Meat at Hyderabad. The first project consisting of testing 5 types of meat at different weights of slaughter. 1. White Broilers 2. Slow growing Broilers

3. Low input dual purpose birds 4. Dual purpose birds crossed with native and 5. Typical Native birds. We compared the meat yields and meat characteristics at weights of 1.5kg, 2.0kg, 2.5kg and 3.0kgs. We could not finds birds above 2kg in the last categories.

Considering all parameters like ease of rearing, economy in production, meat characters, fast growing white broilers and slow growing coloured broilers are found to be interesting. A detailed analysis of meat characters including the organoleptic analysis (taste panel analysis) were taken up in the 2nd research project. The work on both the projects were taken up by the principal scientist at the institute and the material requirements were met by our company. We supplies the necessary birds

of particular weight. Some parameters like Fatty acid analysis and Cholesterol analysis were done outside the laboratory of NRC by the same scientists team.

PRACTICAL RESULTS

The results of trials conducted at NRC Meat are presented here with. Simultaneously we served both the chickens in restaurant to known people. The difference in taste of chicken is palpable. We started marketing the slow growing broiler chicken as “indbro chicken”. The consumers who are aware of taste recognized the superiority of the slow growing broiler over the white broiler in the very first instance. The repeat orders are 90%.

For more information, contact drkotaiah@indbropoultry.com

The fatty acid composition of both the birds is as follows.

FATTY ACID COMPOSITION	SLOW GROWING BROILER	BROILER
SATURATED FATTY ACIDS (SFA)	2.8	5.73
Myristic acid C14:0	0.06	0.12
Palmitic acid C16:0	1.98	4.33
Stearic acid C18:0	0.76	1.28
MONO UNSATURATED (MUFA)	2.82	7.27
Palmitoleic acid C16:0	0.26	0.94
Oleic acid C18:1	2.3	5.88
Eicosenoic acid C20:1	0.07	0.00
Erucic acid C22:1	0.19	0.45
POLY UNSATURATED (PUFA)	1.81	3.08
Linoleic acid C18:2	1.65	2.90
Gamma Linoleic acid C18:3	0.10	0.09
Dihomogamma Linoleic acid C20:3	0.00	0.09
Arachidonic acid C20:1	0.06	0.00

RATIO BETWEEN SFA:MUFA:PUFA 1.54:1.55:1

1.86:2.36:1

The Ideal ration between SFA:MUFA:PUFA is 1:1:1 for better health. Slow growing have a narrow ration compared to fast growing broiler.



LOOKING FOR HIGH-QUALITY PEAT MOSS BEDDING FOR YOUR POULTRY?

Etepek is a leading export company that offers top-quality bedding for poultry use. Our company is based in Latvia, which is a country that boasts abundant

natural resources such as wood and peat. In fact, over 60% of Latvia's land is covered in forests and bogs, giving us extensive experience in exporting these resources.

Benefits of Organic Bedding for Poultry

At Etepek, we take pride in offering a professional bedding solution that caters to the specific needs of poultry



farmers. Our Bedding for poultry use is a mixture of peat moss and wood shavings, which provides several benefits that make it an excellent choice for poultry farmers. The product is 100% organic, reusable as fertilizer, cost-effective, natural, and sustainable. Moreover, organic bedding delivers excellent thermal properties, has a low pH level, and reduces bad smells, making it a healthier option for chickens.

Customizable Blends of Peat Moss and Wood Shavings

Etepek understands that every farm has unique needs, which is why the company offers customized blends of peat moss and wood shavings. We offer several options for the mixture ratio, such as 50:50, 60:40, 70:30 (peat moss: wood shavings), ensuring that poultry farmers can choose the optimal ratio for their farm. Our bedding also comes in Big-Bale packaging up to 6500L, providing convenience in handling and storage for our clients.



Why Choose ETEPEK for Professional Poultry Bedding Solutions?

At Etepek, we prioritize our customers' satisfaction by offering a personal approach to doing business. Our company's reputation is built on friendly terms with our clients, and we take pride in building long-term relationships with them. As a result, our customer reviews reflect our excellent customer service and high-quality product offerings.



OUR 100% ORGANIC MIXTURE OF PEAT MOSS AND WOOD SHAVINGS PROVIDES NUMEROUS BENEFITS FOR YOUR FLOCK. WITH HIGH ABSORPTION, LOW PH LEVELS, AND THE ABILITY TO REDUCE BAD SMELLS, OUR BEDDING DELIVERS A COMFORTABLE AND HEALTHY ENVIRONMENT FOR YOUR BIRDS. AFTER USE, THE PEAT MOSS CAN BE REPURPOSED FOR OTHER AGRICULTURAL APPLICATIONS, MAKING IT A SUSTAINABLE AND ENVIRONMENTALLY FRIENDLY CHOICE FOR POULTRY FARMING.

In conclusion, if you're looking for a reliable supplier of professional poultry bedding, look no further than ETEPEK. With our customized and sustainable product, excellent customer service, and competitive pricing, we are confident that we can meet your needs and exceed your expectations. Contact us today to learn more about how we can help you achieve healthier, more productive flocks with our natural and cost-effective bedding solutions.

For more information, contact
+37129299226, +37126300856
info@etepek.com, www.etepek.com

HOW HONTECH-WINS LIGHTING SOLUTIONS ARE ENHANCING AGRICULTURE PRODUCTIVITY

There are many systems that work together in agriculture - and when they are all efficient, there's no need to worry about problems with your crops. Lighting is one of these essential factors that you'll need to carefully plan out and implement to ensure your lifestyle and plants grow healthily and produce great quality products. Hontech-Wins barn lighting solutions give you the perfect opportunity to improve your operation and get better produce. We'll take a closer look at how these lighting solutions can provide certain benefits in different areas of agriculture.

Benefits of LED Lighting in Agriculture

Hontech-Wins barn lighting systems are useful in different areas of agriculture. Understanding how these lighting solutions can

benefit your agriculture business ensures you get a better view of where Hontech-Wins fits into your business. We're going to take a look at every area where LED lights can be useful in agriculture and consider the specific benefits it offers.

Poultry Lighting

Poultry lighting is crucial, especially if you are going to raise chickens from birth. Specialized Hontech-Wins barn lighting that focuses on poultry can offer a significant reduction in your overall lighting costs. The use of LED bulbs reduces power usage. These lights have also been shown to provide improvements in the development of the musculoskeletal system among baby chicks and ensure they gain weight in less time.

If you want your hens to lay eggs, then an LED lighting solution can

also help them achieve maturity in a shorter period of time. Egg output can also greatly improve with these solutions, while also ensuring the eggs are of higher quality. Overall, it's possible for these benefits to help your business gain better output and improve profits in the long run.

Dairy Lighting

You can also turn to Hontech-Wins barn lighting solutions if you want to improve the dairy output of your business. It's been found that lighting in the barn can help to increase milk production by as much as 14% in some cases. Furthermore, the lights also help to improve activity among cows and can help to contribute to better fertility - which is great if your focus is also on expanding the number of cows on your farm.

For more information, visit www.szhontech.com



WHAT MAKES SUPERIOR HATCHING RESULTS BEFORE SETTING EGGS?

To achieve superior hatching results before setting the eggs, there are several factors to consider and optimize. Here are some key aspects that can contribute to better hatching outcomes:

1. **Egg Quality:** High-quality eggs have a greater chance of successful hatching. Ensure that the eggs are obtained from healthy, disease-free breeders. The eggs should be of appropriate size, shape, and weight, with intact shells and no visible deformities or cracks.
2. **Breeder Management:** Proper care and management of the breeding flock play a crucial role in obtaining quality eggs. Provide a balanced and nutritious diet to the breeders, ensuring they receive adequate vitamins, minerals, and proteins. Maintain optimal flock health, including vaccination programs, parasite control, and regular veterinary check-ups.
3. **Egg Collection:** Handle the eggs carefully during collection to prevent damage. Avoid washing the eggs as it removes the protective cuticle, which can increase the risk of bacterial contamination. Cracked eggs, even hairline cracks can cause the embryo to die or become an exploder that will contaminate the other eggs. Remove them from the process.
4. **Transportation of the hatching eggs** from the farm to the hatchery should best be done in a well-ventilated and climate-controlled truck. Use roads that avoid bumps and potholes, if not,



drive very carefully as the eggs might get damaged.

5. **Store the eggs** in a clean and controlled cold store environment with proper ventilation, temperature, and humidity. Ideally, eggs should be stored at a consistent temperature of around 50-60°F (10-15°C) and a relative humidity of 70-80% depending on the length of time the eggs will be stored.
6. **Pre-warm the hatching eggs** before setting to avoid sweating (condensation on the eggs) ideally to about 72°F (22°C) in a pre-heating room or up to 80°C (27°C) in pre-heating mode in the incubator setter.
7. Depending on the set-up, fumigate the eggs just before setting and/or use a Total Disinfection System (TDS) in the incubator.
8. **Choose a reliable and well-**

calibrated incubator that provides consistent temperature, humidity, and ventilation control.

9. **Monitoring and Adjustments:** Regularly monitor the incubator's temperature, humidity, and other parameters to ensure they remain within the optimal range. Make necessary adjustments if any deviations occur to maintain stable conditions.

Remember, achieving superior hatching results is a combination of careful management, attention to detail, and providing optimal conditions for the eggs' development. It's essential to follow species-specific guidelines and consult with experienced breeders or poultry experts for specific recommendations.

For more information, visit www.emka-incubators.com

GENUS FOCUS NON-INVASIVE IN-OVO SEXING FULLY ALIGNED WITH ANIMAL WELFARE STANDARDS



Orbem and Vencomatic Group are excited about the fact that a recent study commissioned by the German Federal Ministry of Food and Agriculture (BMEL) confirms that the physiological neural activity of chick embryos does not start before day 13 of incubation – meaning pain cannot be processed before this time. This finding is crucial for animal welfare standards, as it provides scientific evidence to support the planned adjustment to the current German ban on chick culling after day 6 of incubation. German federal cabinet (Bundeskabinett) has decided to draft an aid to adapt the prohibition for ending the incubation process of chick embryos after day 12, as of January 1st, 2024.

Dr. Maria Laparidou, Chief Scientific Officer (CSO) at Orbem, veterinarian, and embryo development expert comments: “The results found in this latest study of pain perception in embryos are confirming that the Genus Focus non-invasive technology is the way forward when it comes to in-ovo sexing in the most animal-friendly way. A perfect match with our mission to develop technology that meets high standards of animal welfare and sustainability.”

About a year ago the two companies announced their strategic partnership for Genus Focus: an in-ovo sexing solution that can detect the sex of poultry embryos before day 13 of incubation with MRI & Artificial Intelligence technology.

The teams worked intensively to develop and install their modular trolley-to-trolley solution, combining Orbem’s Genus Focus technology with a newly developed Prinzen automated egg-handling system, allowing 24,000 eggs per hour to be scanned. Given the proposed adjustment of German regulations to allow in-ovo sexing on day 12 and also after 1. January 2024, the companies expect to soon deliver their first German installation.

To date, 6 Genus Focus modules are operational at French hatchery customers and already >10 million eggs have been scanned. This combined solution is versatile, accurate, can be utilized on any chicken breed, and does not affect hatchability as it is non-invasive and contactless. Customers are very satisfied with the high degree of automation and efficiency, as only 1 employee is needed to operate the entire process even when multiple modules are used in parallel. Moreover, the flexibility of adding more modules, allows hatcheries to increase their egg-scanning output, keeping up with growing market demand.

For more information, visit www.vencomaticgroup.com





GLOBAL ANIMAL DISEASES GILD DANISH DISINFECTION MANUFACTURE

A global agricultural market affected by ASF (African swine fever), and avian influenza outbreaks has given the Danish manufacture of hygiene and disinfection products for livestock, Jorenku A/S, an increased bottom line.

For the third year in a row the Danish company Jorenku A/S, the producer of e.g. Staldren®, has increased the bottom line.

The company's result for 2022 ends with DKK 2.7 million compared to the previous year, where the result ended at DKK 2.1 million. That is an increase of 27.3%. The operation – the EBITDA – ends with DKK 4.1 million and is thus also higher than the previous year.

According to the founder and CEO of Jorenku, Johnni Pedersen, the positive development is a result of great demand for the company's flagship product, Staldren®.

Johnni Pedersen states: "The profit is mainly due to the fact that more and

more people have discovered our product Staldren®, which we export to more than 65 countries worldwide, and which we over the past 30 years have ensured is among the world's best disinfectants." He continues: "Additionally due to avian influenza and ASF around the world, as well as generally many infections among cattle, pigs, and especially among broilers and layers, it has generated an extra great demand for our type of products."

The director acknowledges, that the situation of world is an unfortunate background upon which to grow but is pleased that Jorenku's products are among the first to be chosen in the fight against zoonoses. In particular, markets such as Southeast Asia has been the driving force behind the year's profit.

Consolidation and a new focus

Because of the profits during the past three years, Jorenku can

now consolidate and invest in optimizing and improving the production facilities.

Among other things, the director tells that Jorenku has built a new factory which produces liquid vitamins, minerals, organic acids, and liquid disinfectants. These products are made both under the Jorenku brand, but also as private label, which other companies in the industry can buy into.

Does this mean, that private label is something Jorenku now will focus more on? - "Yes, it does. We are experiencing an increasing demand for private label. There are many, very large companies, that would like to have our products, but would prefer them under their own brand. Therefore, we produce a lot of private label products", says Johnni Pedersen.

For more information, visit www.jorenku.dk



ON-FARM SAMPLING: THE KEY TO BATTLING PATHOGENS

Over the past several years, there has been a lot of work on the energetic cost of systemic inflammation, leaky gut and immune activation. Pathogens can trigger all three of these responses and pose a significant threat to a farm beyond just illness. So how do you know if your herd is dealing with this type of challenge? On-farm sampling.

One of Papillon's keystone services is on-farm pathogen sampling. By collecting fecal, TMR, and forage samples from all groups of cows on a dairy, our team is able to gain insight into the type of pathogens present and how they are affecting the cows. Papillon's sampling targets both toxic and non-toxigenic clostridia, pathogenic *E. coli*, and *Salmonella*.

Often, pathogen sampling data tells a story and indicates feeds or management factors that can be addressed to improve feed hygiene and reduce pathogen pressure on the cows. Examples include identifying feeds that sit out too long allowing pathogens to multiply, challenging forages that should be managed to limit inclusion, or potential sources of fecal cross contamination.

Papillon benchmarks each farm's sampling results against regional values so we can determine the risk of pathogen-related issues relative to other dairies in the region and target our probiotic solutions accordingly. This sampling program drives our formulation of BaciFlex® and creates a family of regionally customized probiotics that use natural *Bacillus* technology to support

herd health.

In addition to regular farm sampling offered to nutritionists and producers to identify pathogenic challenges, a more thorough, nationwide sampling is conducted every 3-4 years. This large-scale sampling allows Papillon to reevaluate the species of pathogens present on dairies throughout the country and update the strains of *Bacillus* used in the regional formulations of BaciFlex. Based on the most recent resampling, new strains of *Bacillus* were added to all BaciFlex formulations. As a result, benchtop evaluations showed product efficacy improved from 91% to 95%.

Harnessing the power of on-farm sampling allows us to improve the value of Papillon's branded probiotics, like BaciFlex, and ensures the right product is selected for the challenges on the dairy.

For more information, visit www.papillon-ag.com



STRESS REDUCTION VIA DRINKING WATER – DR. ECKEL PRESENTS INNOVATIVE ANTI-STRESS ADDITIVE

At VIV Asia, Dr. Eckel Animal Nutrition presented their latest innovation: the water-soluble anti-stress product MagPhyt WS. Designed specifically for drinking systems and therefore of particular interest to poultry producers, MagPhyt WS promises rapid stress reduction and improved resilience thanks to a combination of selected plant extracts, highly bioavailable magnesium sources and vitamin C.

Stress requires immediate action

In stressful and challenging times, producers need immediate relief to calm their animals and prevent stress symptoms from spreading. There is usually no time for a feed change: the solution comes through the drinking water.

Thanks to its unique triple complex, MagPhyt WS provides the essential extra: it is more than magnesium, more than Vitamin C, more than fast stress relief. With its combination of proven plant extracts, optimally bioavailable magnesium sources and vitamin C and the innovative formula for fast solubility, MagPhyt WS has

FASTEST STRESS REDUCTION FOR DRINKING SYSTEMS – COMBINATION OF MAGNESIUM AND PLANT EXTRACTS

what it takes to strengthen poultry flocks against stressful situations, quickly calm down nervous birds and stabilise their condition. This means that livestock keepers can act at the first signs of restlessness in the poultry house and take countermeasures in good time, before the stress affects the well-being and performance of the animals. This means less injuries, better carcass quality and fewer animal losses.

More than magnesium

For MagPhyt WS, the German high-quality manufacturer relies on two particularly valuable magnesium sources: Mg-Citrate and Mg-Glycinate. On top of that, there are vitamin C and selected plant extracts. Thanks to the interdisciplinary development work, the Dr. Eckel team succeeded in combining the various ingredients in a complex with residue-free solubility. As a fine powder, MagPhyt WS is added directly to the water tank, dissolves immediately and

distributes evenly in the water. There is no need to change the feed.

Anne Möddel, Senior Technical Sales Manager and Product Manager at Dr. Eckel, is really enthusiastic about the new MagPhyt WS: “MagPhyt WS has a holistic effect on the animal. You can scent it immediately in the drinking water, it smells intensively of lavender. In the organism it works highly effectively and incredibly fast, within just one day. You can literally watch the animals become calmer.” This is also confirmed by the company’s initial practical experience with selected turkey and chicken farms. MagPhyt WS is now available on the European market, in numerous Asian countries and in other regions.

For more information, visit www.dr-eckel.de



BENEFITS OF ZEOLITE IN LIVESTOCK AND POULTRY

Growing interest in all-natural, environmentally friendly methods of enhancing animal performance and health has been observed recently in the livestock and poultry sectors, in Agriculture green zeolite company we follow this approach.

Our product Zeolite (chabazite), a mineral-based compound with exceptional adsorption and ion-exchange characteristics, is one such approach that is gaining popularity. In this article, we will examine the benefits and applications of zeolite supplementation in the management of livestock and poultry, emphasizing its potential to improve general health and production while reducing reliance on traditional additives.

About Zeolite

Zeolites (chabazite) are crystalline aluminosilicates having a three-dimensional framework structure, a high surface area, and high porosity. Zeolite is a great adsorbent for a variety of compounds, including poisons, heavy metals, and ammonia due to these features. Additionally, zeolite's ion-exchange ability allows it to hold onto and release vital minerals like magnesium, potassium, and calcium that are good for animal health.

Here are the Benefits in livestock and poultry:

Promoting Digestive system Health: Performance in livestock and poultry might suffer from digestive issues.

By adsorbing dangerous microorganisms, mycotoxins, and too much moisture in the gastrointestinal system, zeolite has been discovered to relieve gastrointestinal disorders. Zeolite supplementation can support a healthy gut microbiota and boost nutrient absorption by minimizing



the presence of toxic chemicals. This leads to improved feed conversion efficiency and general growth.

Enhanced Immune system

Function: Livestock and poultry must have a strong immune system to fend off infections and illnesses. Animal immunological responses can be improved with zeolite supplementation, according to research. It contributes to lowering oxidative stress, controlling the inflammatory response, and boosting the generation of beneficial cytokines. Zeolite can help decrease the demand for

ideal gut environment by reducing toxins and pathogens and improving the absorption of nutrients from the feed. This led to increased egg production in poultry as well as better milk production in dairy cows.

Reduce Ammonia gas and improve Air Quality:

Due to its detrimental effects on respiratory health and general welfare, ammonia buildup in animal housing facilities is a major concern. A useful method for preserving ideal air quality is provided by zeolite's exceptional capacity to absorb and hold ammonia molecules.

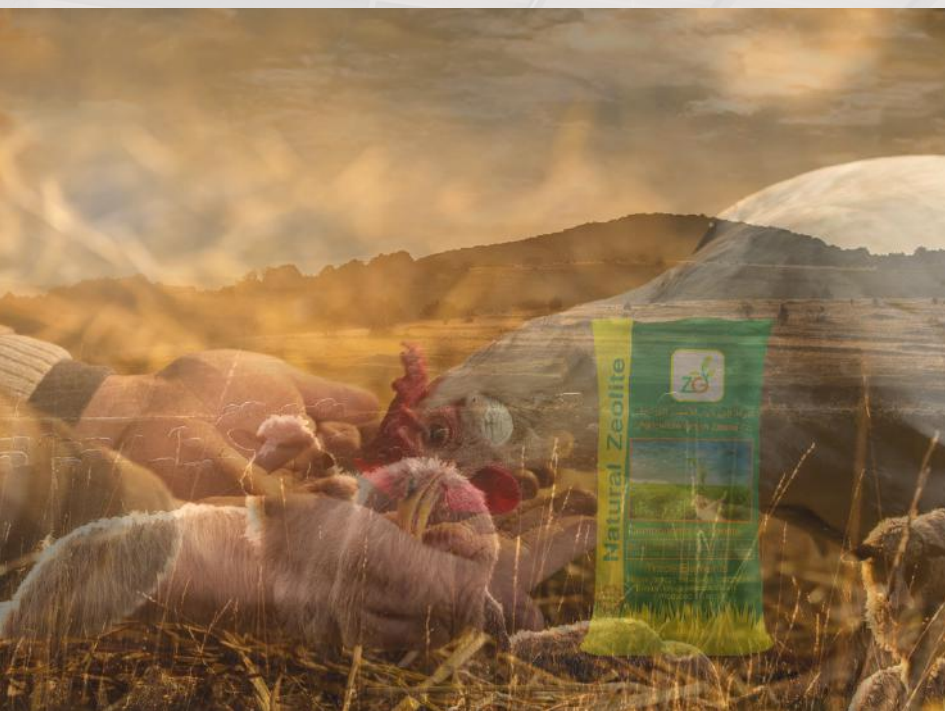
for water filtration and treatment, Chabazite has proven effective in purifying water around the world. High levels of ammonia in drinking water can negatively impact animal health and performance, zeolite reduce the amount of ammonia by absorption, also it effectively adsorbs and remove impurities from water, including heavy metals, organic pollutants, and contaminants.

Conclusion:

A variety of advantages come from incorporating zeolite as supplement in livestock and poultry management, including better digestive health, ammonia control, greater immune function, and reduce environmental impact. With Zeolite's adsorption and ion-exchange capacity, farmers may increase productivity, improve animal welfare, and align their methods with sustainable agriculture aims. Zeolite supplementation has the potential to significantly improve the productivity, environmental friendliness, and animal-centricity of livestock and poultry sectors as research in this area advances.

It is important to remember that while zeolite supplementation can be beneficial, it should be viewed as a component of an all-encompassing strategy for managing and nourishing animals. For livestock and poultry to produce the most milk and eggs, factors including proper feed formulation, ideal management, and other sound husbandry techniques are also important.

For more information, visit www.greenzeolit.com



antibiotics and enhance general animal welfare by promoting immunological function.

Enhanced Nutrient Absorption and increase production:

The adsorption abilities of zeolite can enhance nutrition uptake in the gastrointestinal tract of livestock and poultry. Zeolite supplementation provides an

By integrating zeolite into barn bedding and poultry houses, farmers who raise livestock and poultry can dramatically lower ammonia levels, reducing the risk of respiratory illnesses and improving the comfort of their animals.

Animals water treatment

Zeolite's unique adsorption properties make it an effective tool



LIVESTOCK & POULTRY ME

INFLUENCE OF VARIOUS FEED INGREDIENTS AND ADDITIVES ON EQUINE BEHAVIOUR AND FEEDING PATTERNS

Understanding the origin of Feed Neophobia in Horses

Equine nutrition is a complex and constantly evolving field, with many challenges faced by horse owners, managers, and nutritionists. One of the biggest challenges is ensuring that horses consume enough of the right types of feed to meet their nutritional needs. This is especially important for horses in certain stages of life or with certain health conditions. For example, senior horses may have dental issues that make it difficult for them to chew and digest their feed properly. This can lead to weight loss, malnutrition, and other health problems. In addition, some horses may have digestive disorders, such as colic or ulcers, that can impact their ability to consume and absorb nutrients from their feed. Another challenge in equine nutrition is ensuring that horses consume enough roughage, such as hay or pasture, to maintain a healthy

digestive system. Some horses, such as performance horses, may be fed high-grain diets that provide a lot of energy but little roughage. This can lead to digestive upset and other health issues. There are also challenges related to ensuring that horses consume feed that is free from harmful substances, such as mycotoxins. These substances can be present in hay or other feed ingredients, and can have negative effects on equine health. Overall, ensuring that horses consume enough of the right types of feed is a critical aspect of equine nutrition. Nutritionists must work closely with horse owners and managers to develop feeding programs that meet the unique needs of each horse, taking into account factors such as age, health status, and stage of life. By addressing these challenges, equine nutritionists can help promote optimal health and performance for horses of all types. Horses have a natural tendency to approach new food with caution and consume only small amounts initially, a behaviour known as neophobia. This survival mechanism is thought to help herbivores avoid ingesting toxic plants in the wild. In horses, neophobia can manifest as picky eating habits. To better understand this behaviour and find ways to modulate it, a study was conducted in a barn setting. The study measured two main factors: 1) horses' preference between a new feed and the same feed with an added ingredient, and 2) the amount of feed consumed within a limited time period. The study aimed to identify potential solutions for improving feed acceptance in horses and optimizing their nutrition.

Measuring preference of horses and its impact on feed consumption

An experiment was set up with a group of horses (7 horses / all geldings / all sport horse breeds / 350 - 500 kg / 3 - 22 years old / fed with pelleted feed) to evaluate the impact of various formulations and feed ingredients. All horses were exposed with a control diet (new mash feed) (NC - negative control) and 7 tested treatments (TT) = NC + 1 new ingredient (based on supplier standard recommended dose). Every horse was proposed 2 buckets simultaneously: 1 NC vs 1 TT. Each horse was proposed the 2 buckets for 5' with the same fixed amount of feed (200 g x 2). Besides, all horses tested the 7 treatments in a random order to neutralize any temporal effect. With this protocol, one could measure the preference and the total feed intake of PC within 5 minutes based on one double choice feeding test (NC vs PC). Preference is based on the preference of each horse, i.e. the treatment that the horse starts to eat. (ex: 60% means 60% of horse started to consume PC treatment). Feed intake was expressed in percentage of the volume of positive treatment initially given to the horse (ex: 100% means that the horse finished the whole bucket in 5 minutes).

Preliminary observations of the evaluation

The test was performed over 7 weeks (once per week), with new mash feed to trigger neophobia and measure the adaptation to a new feed. The average consumption and the tolerance to new feed increased a bit over time, which means horses



got used to the exercise to some extent. All horses showed a similar pattern in terms of consumption, except one thoroughbred horse who behaved as a « fussy eater ». Other parameters such as age or weight were analysed but no influence was. All horses were in good shape and practised exercise regularly (no specific challenge).

How feed ingredients affect equine feeding behavior

Various feed ingredients and additives were evaluated in that experimentation: different flavors from various suppliers ('fenugreek', 'apple', 'vanilla', 'red fruits'), one garlic extract ('garlic'), a solution based on yeast fermentation technology ('yeast'), and finally a new technology based on the micro-granulation of natural palatants and phytogenics ('Fresh').

Here's a short summary of the main observations: When offered the 'Fresh' treatment and the negative control (new mash feed alone), most horses preferred the 'Fresh' treatment. Similar results are observed for vanilla, and to some extent for the Apple and Red fruits treatments (preferred in >50% of cases). Fenugreek seemed to slightly degrade the palatability of feed, at

least did not increase it. The 'umami like' flavour of the yeast product (yeast fermentation product) seemed to be less attractive for horses. Finally, garlic clearly reduced the palatability and attractiveness of feed for horses; indeed, most horses preferred the negative control and finish it before eventually starting the garlic treatment.

Evaluating the role of feed ingredients in shaping total feed intake

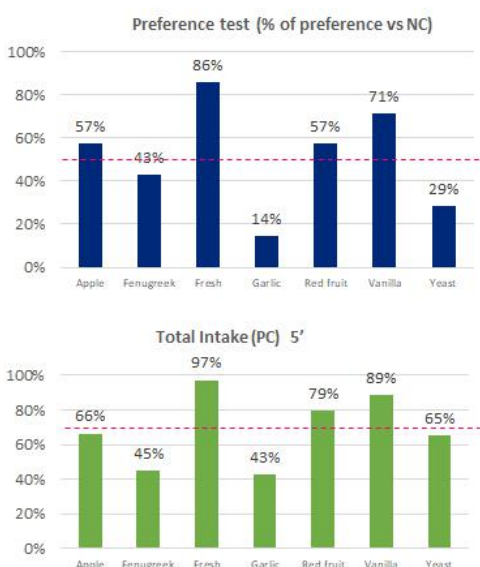
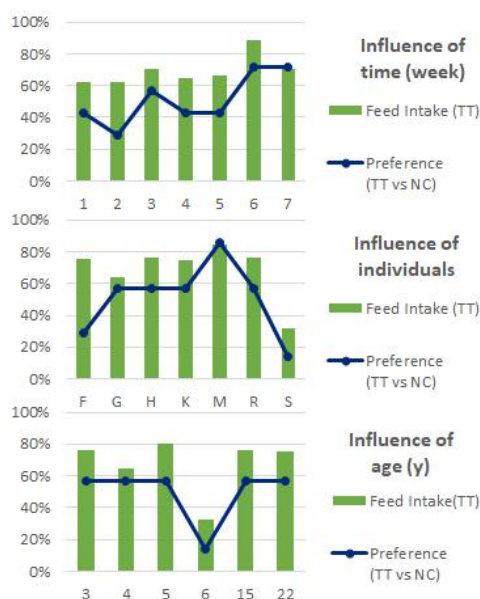
Some ingredients such as fenugreek or garlic, which reduced the palatability of feed, eventually reduced the total intake as well. The yeast fermentation technology triggered an intake of 65% in 5 minutes, even though it was not proactively preferred. The apple treatment triggered an intake of 66% but the response was quite heterogeneous among horses. The red fruit and vanilla flavors seemed to trigger a quite high intake (resp. 79 and 89%), despite some heterogeneity among horses. Finally, the 'Fresh' treatment triggered a very high and very consistent feed intake, since most of the horses managed to eat all feed within (all animals finished 80 to 100% of the 'Fresh' treatment after

5 minutes).

Advanced technologies for improving horse feeding habits and enhancing equine health

While some feed ingredients, such as garlic, fenugreek, or yeast products, may have beneficial health effects for horses, they can also reduce the attractiveness of the feed and lower overall feed intake. To address this, formulators may choose to combine these ingredients with more palatable options. Additionally, during feed transition periods, incorporating flavours like apple or red fruits can help reduce neophobia in horses. Vanilla has also been found to be a preferred flavouring option. Finally, natural palatants and essential oils with a sweet, anise-like profile, processed through a unique micro-granulation technology, have been shown to increase feed palatability and intake consistently. This technology can optimize the attractiveness of the feed, promote feed intake, and improve the overall digestive function of horses.

For more information, contact helaryewenn@nuqo.eu



Treatment	Effect on attractivity	Effect on final intake
Fresh	+++	+++
Vanilla	++	++
Red fruits	+	+
Apple	+	+/-
Yeast	--	+/-
Fenugreek	-	--
Garlic	---	---

NOR-MITE®: IN-FEED REPELLENT TO CONTROL RED MITE POPULATIONS IN POULTRY BREEDING



Red mites are ectoparasites that live at the expense of laying hens. Their presence in laying farms has deleterious economic and health consequences. Their short life cycle and ability to survive without eating enable poultry red mites to proliferate, which makes them particularly difficult to remove from farms.

The red mite's life cycle is divided into 5 stages leading to adulthood in just seven days, under optimal conditions (a

temperature of 25°C and a 70% humidity). In comparison, the mosquito becomes an adult after one month and a tick after one year. First, the red mite egg becomes larva, then protonymph («Nymph 1»), then deutonymph («Nymph 2»), and finally it reaches the adult stage. Only the last three stages of the life cycle require a blood meal to reach the next phase. Adult female red mites also need just one blood meal to lay eggs while adult males occasionally feed from blood. During the other life stages (nymph) red mites can survive almost nine months without feeding. The acari is also able to support high temperature variations.

Speed of reproduction

Although the fertility of red mites is lower than other ectoparasites, a female can

produce up to eight egg-laying cycles. Each cycle is able to produce between 1 to 8 eggs, with an average of 23 eggs in their lifetime.

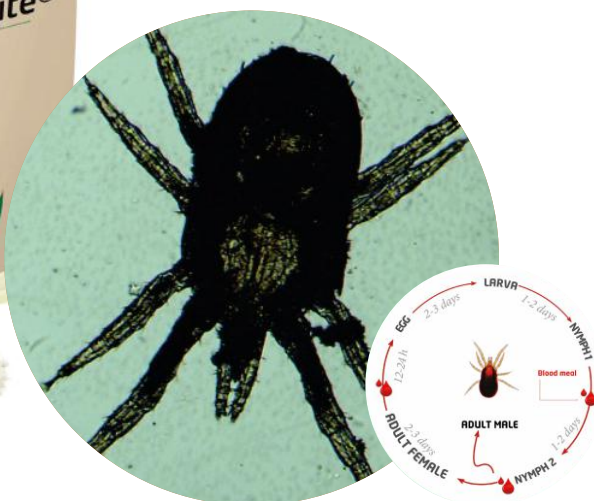
A trial was conducted in a Spanish commercial farm on 60.000 laying hens during 15 days. The average temperature inside the commercial farm was 24.7°C, and the maximum relative humidity was 60.5%.

Nor-Mite® was included in the laying hens' diet at 750 ppm during 15 days. The red mites inside the laying farm were counted at the beginning of the trial (D0) and at the end of the trial (D15).

In ideal conditions of temperature (25°C) and humidity (70%), the population of red mite would have reached the theoretical number of 80.000 adults per trap after about 15 days. With the use of Nor-Mite®, the initial population (2.317 red mites) remained almost the same after 15 days.

Nor-Mite® is a feed additive with natural aromatic compounds developed by Nor-Feed for poultry farms.

For more information, visit www.norfeed.net



KEEP YOUR ANIMALS COOL THIS SUMMER

As the summer months approach, producers may begin to notice the impact of rising temperatures on their animals. Heat stress can result in various health issues, such as decreased breeding efficiency, lower milk production, dehydration, heat exhaustion, compromised immune systems and unhealthy weight gains. It is crucial to keep animals cool during hot weather to maintain their health and profitability.

Here are some tips to help you keep your livestock cool this summer:

1. Provide shade: Provide adequate shade for your livestock by using shade cloth, trees, or other structures that block direct sunlight. The shade should be well-ventilated to allow for airflow.

2. Provide plenty of water: Ensure that your livestock have access to plenty of clean water to keep them hydrated. You can install automatic waterers or provide water

through troughs. Make sure that each water source is clean and contaminant-free, as any excrement found in watering tanks will prevent your livestock from consuming it. Operators can keep their water cool by making sure all water lines are covered by grass in the fence rows.

3. Install misting systems: Misting systems can be installed in livestock housing areas to help cool the air and provide some relief to the animals. The misting system should be ventilated to avoid humidity build-up.

4. Use fans: Fans can be installed in livestock housing areas to promote air movement and reduce the temperature. Maximize air flow by making sure all fans are working properly to move air throughout the building, or open sides of the building to provide access to pasture with shade or an outdoor pen.

5. Adjust feeding times: Feed your livestock during the

cooler parts of the day to avoid feeding them during the hottest parts of the day.

6. Manage pests: Manage pests such as flies, mosquitoes, and other insects that can cause stress to your livestock. Use traps, baits and sprays from Starbar® products to minimize their impact.

7. Keep housing areas clean: Regularly clean livestock housing areas to remove manure and other waste materials that can produce heat and odor. Proper ventilation can also help remove heat and odors. Dry bedding will decrease fly gatherings by providing fewer damp conditions for them to gather and lay eggs.

By following these tips, you can help keep your livestock cool during the summer heat and reduce the risk of heat stress and other health problems.

For more information, visit www.centralflycontrol.com



CONTROLLING MASTITIS WITH AWARD WINNING TECHNOLOGY

The Teatwand Parallel has smart cup sensors that contribute to accurate and speedy teat spraying. Jamie Spyker, Mechatronics Engineer of Onfarm Solutions has given us some details on how they work:

As the milking cups fall off the cows' teats, the robot needs to immediately know which cow requires spraying. If we spray the cow as soon as the cups fall off, we get immediate application of teat spray as well as significant time savings.

To achieve this, we incorporated cup detection into the system, which monitors in real-time when cups have attached or detached from a cow. We continually monitor these sensors throughout milking and use smart algorithms to determine the best order to spray cows.

The system adapts to various situations. If the cups accidentally come off halfway during milking, you can reattach them without the robot interfering.

If you attach cups onto a cow before it is pre-sprayed

by the robot, it will be skipped (perhaps a cow that needs additional milking time with the cups being attached early). If a cow is not present, the system will know to skip that stall altogether. The result is an efficient system that fits around cow flow and how your milkers work, with minimal intervention.

Onfarm Solutions provides efficient and smart teat spraying solutions that give farmers more time to do the things they love.

For more information, visit www.onfarmsolutions.com



EPAX CLOSE TO 100% CIRCULARITY FOR MARINE BIOMATERIALS



Epax has reported close to total circularity for its marine biomaterials, thanks to a strict zero-waste policy.

In 2022, 96.7% of by-products resulting from the manufacture of Epax's marine oil ingredients were used to create other valuable resources, including animal feed, fertiliser and biogas.

The achievement is announced in the Norwegian marine lipid specialist's first annual Environment, Social and Governance (ESG) Report, in which it commits to increase the figure to 98% by the end of 2023. To its knowledge, Epax is the first Omega-3 ingredients supplier to set itself biocircularity targets or to report on its progress in the area.

The ethos of circularity – also known as the circular economy – is to minimise the use of raw materials, maximise product reuse and recycling, and make new products from waste and by-products. Currently, just 7.2% of all materials input into the

entire global economy are used to create new resources at the end of their useful life.

Epax's ESG report also provides an overview of other measures the company has taken to minimise its environmental impact, promote social responsibility across the supply chain and improve corporate governance. These have already resulted in a 33% reduction in fuel oil use since 2019 and a 13.3% cut in CO₂ emissions since 2020.

The new ESG strategy builds on Epax's first environmental stewardship policy, EcoVision, which it launched in 2010 as part of a commitment to responsible and sustainable operating practices.

Bjørn Refsum, CEO of Epax, said: "Epax has a long-standing commitment to sustainability, and an exceptionally high level of biocircularity is a key element of our plans for the future. This is increasingly important as consumer demand grows for

sustainably produced omega-3 products and full ingredient transparency. To our knowledge, we're the first supplier in the sector to report on our progress towards full circularity, but we hope that others will now do the same."

The report sets out 12 goals to be achieved by 2030, including 100% renewable energy usage in Epax's Ålesund factory by 2025, using 80% less potable water by 2025 compared to 2021, and achieving an absolute reduction in CO₂ emissions year-on-year to 2030. The goals align with five specific UN Sustainable Development Goals (SDGs): clean water and sanitation (SDG 6), decent work and economic growth (SDG 8), responsible production and consumption (SDG 12), climate action (SDG 13), and life below water (SDG 14).

Epax's 2022 Environmental, Social and Governance (ESG) Report is available at: www.epax.com/esg-report/

BIOMAR AND AGRONUTRIS PARTNER ON THE NEXT GENERATION INSECT MEAL

BioMar and Agronutris have signed a long-term partnership to develop the next generation of black soldier fly meals specifically designed for the needs of the aquaculture industry. After years of R&D, insect meal is now seen as a promising new ingredient on a clear pathway to being widely adopted. A wide portfolio of insect meals design for aquaculture are entering the market.

"Black soldier fly meal has always been an interesting prospect that could be well suited for aquafeeds. In Agronutris we have found a partner that shares our mission and dedication to reducing the environmental impacts of our aquafeeds. They have developed a scalable model for black soldier fly able to meet the nutritional and sustainability profile required by us and the industry," said Fernando Norambuena, Global Category Manager – Novel Raw Materials at BioMar.

Through detailed attention to its feedstock sourcing, 12

years of R&D achievements, and significant industrial investment, the Agronutris solution is bringing a stable, high-quality product with a high sustainability performance demonstrated by a robust life-cycle assessment. Agronutris has created an approach by which there is a clear vision of moving from a novel source of protein into an ingredient from a circular economy that has an impact at a scale relevant to the Aquaculture industry.

"For insect meal to successfully make its way into aquafeeds, it must demonstrate high nutritional value and support good growth and health for the fish and shrimp. Our innovative product has a great nutritional profile that is well suited for the aquaculture industry. At Agronutris, we are working closely with BioMar to create the ideal product that will meet their ambitious sustainability parameters", said Chris Haacke, Director of Business Development at Agronutris.

"A truly sustainable insect meal should be decoupled from the

human food supply chain and fed off a substrate based on waste foods and by-products. With Agronutris, we see a viable, scalable model for producing black soldier fly meal that could see this product become a good source of nutrition in aquaculture", said Vidar Gundersen, Global Sustainability Director at BioMar.

There is a strong strategic alignment between Agronutris' mission to supply low environmental impact alternatives and BioMar, which has placed sustainability at the heart of its future strategy with the aim of 50% of ingredients from a circular and restorative economy and lowering its feed carbon footprint by 1/3 by 2030.

"As novel raw material manufacturers continue to evolve their product offerings, we will see more collaborations in BioMar like this", concluded Fernando Norambuena.

For more information, visit www.biomar.com

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