

JANUARY - MARCH 2024

# LIVESTOCK & POULTRY

## MIDDLE EAST & ASIA

**24 POULTRY  
FARMING**

**29 ANIMAL  
FEED**

**37 VENTILATION  
SOLUTIONS**

**38 DAIRY  
FARMING**



**SLOW GROWING  
CHICKEN**

**22**

**ANIMAL HEALTH**

**34**

**YOUNG ANIMAL  
NUTRITION**

**35**

**BALE STORAGE**

**36**



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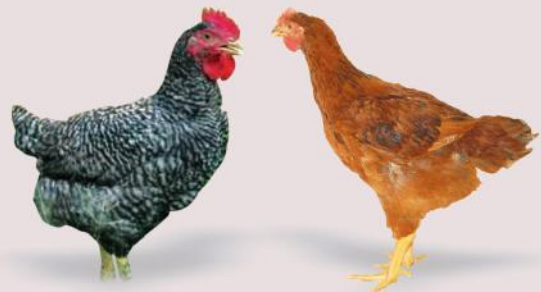
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# LIVESTOCK & POULTRY

## MIDDLE EAST & ASIA



24



20



26



27



28



29



30



37



39

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Livestock & Poultry Middle East & Asia is designed to serve the fast growing livestock and poultry sectors in the Asia and Middle East region by providing the expert information to our readers in our four comprehensive issues in a year. It is circulated throughout Middle East region and worldwide in addition to the extra distribution at various Livestock, Poultry, Aquaculture and Agriculture Shows. The magazine provides editorial coverage on a wide range of topics which are of interest to industry professionals.

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# News

## ADAFSA SHOWCASES FOOD SECURITY AND SAFETY INNOVATIONS AT ADAFSA INNOVATES

Abu Dhabi Agriculture and Food Safety Authority (ADAFSA) has participated in UAE Innovation Month 2024 by showcasing a range of innovative programmes and activities in the field of agriculture, both plant and animal, and food safety.

The event was held at the Agricultural Oasis at the Sheikh Zayed Festival in Al Wathba from 20-25 February 2024 under the theme ADAFSA Innovates, providing an ideal platform for ADAFSA's innovators and

influencers to showcase their innovations and highlighting the importance of innovation, technology and scientific research in enhancing food and agriculture sustainability.

The ADAFSA Innovates exhibition covers diverse areas, including aquaculture, the first bio-bank for reference samples of camel diseases and innovations in the export and import programme. Through this event, ADAFSA aims to attract exhibitors to highlight progress and

innovation in these important areas.

Omar Ali Al Shammari, Acting Executive Director of the Strategy and Policies Sector at ADAFSA, said: "We firmly believe that innovation is the cornerstone of achieving agricultural and food sustainability in the Emirate of Abu Dhabi, and our participation in UAE Innovation Month 2024 reaffirms our commitment to supporting innovation in various areas of our work."

## HONORING THE WINNERS OF ALMARAI 15<sup>TH</sup> AWARD FOR VETERINARY MEDICINE IN GCC

His Excellency Dr. Muhammad bin Abdulaziz Al-Ohali, President of King Faisal University in Al-Ahsa, honored the winners of the

15<sup>th</sup> session of the Almarai Award for Veterinary Medicine for the Cooperation Council Countries 2023 in a ceremony held under the patronage of His

Royal Highness Prince Saud bin Talal bin Badr, Governor of Al-Ahsa at King Faisal University in the Governorate of Al-Ahsa, 15 Jumada al-Awwal 1445 AH, corresponding to November 29, 2023 AD, in the presence of Dr. Salah bin Abdulaziz Al-Shami, Secretary

General of Almarai Veterinary Medicine Award, Chairman of the Board of Directors of the Saudi Veterinary Medical Association, and Abdullah Al-Otaibi, Head of Corporate Communication and Public Relations at Almarai Company.

During the ceremony, winners were honored in various branches of the award. Professor Sharif Mohammed Diab from the Faculty of Veterinary Medicine of King Faisal University received the award of distinguished researcher and the best Saudi veterinarian practitioner in medicine and treatment.



## NEOM ANNOUNCES JOINT VENTURE WITH TABUK FISHERIES COMPANY TO ESTABLISH TOPIAN AQUACULTURE

NEOM, the sustainable regional development taking shape in northwestern Saudi Arabia, announced the establishment of a joint venture with Tabuk Fisheries Company. Endorsed by the Ministry of Environment, Water and Agriculture (MEWA), the joint venture, Topian Aquaculture, aims to support the National Livestock and Fisheries Development Program in achieving its ambitious goal of producing 600,000 tons of fish products annually by 2030.

The joint venture builds on the Memorandum of Understanding between NEOM and Tabuk Fisheries Company signed in 2021 and will establish Topian

Aquaculture. The venture will include a hatchery that is expected to become the largest in the MENA region by the end of 2024 and has a planned capacity of 42 million fingerlings and marine-pen production facilities, with production of finfish in the pens projected to reach 20 kt per year.

Topian, the NEOM Food Company, is the key facilitator of the venture, which aligns with its commitment to developing a robust, sustainable aquaculture sector in the Kingdom to support food security and self-sufficiency, and ensure the production of fresh, healthy seafood in Saudi Arabia and beyond. This strategic

agreement, unveiled at the Saudi International Marine Exhibition (SIMEC) in Riyadh, outlines Topian Aquaculture's role in advancing the aquacultural landscape locally and regionally.

Nadhmi Al-Nasr, CEO of NEOM, said: "Topian Aquaculture reflects NEOM's mission to implement innovative solutions that strengthen key industry sectors, while mitigating our impact on the environment. The strategic joint venture with Tabuk Fisheries Company highlights the role collaboration plays in NEOM's goal of redefining business and in meeting the national objectives of Saudi Arabia."



The advertisement features a collage of images: a Caprese salad, a pasta dish with asparagus, a bowl of mozzarella and mushrooms, a wheel of Fontal cheese, and containers of Mascarpone and Mozzarella. The central logo includes the text "CLASSIC ITALIAN CHEESES", "MADE IN THE U.S.A.", "FORMAGGI CLASSICI ITALIANI", "FATTI IN AMERICA", and "SAY BEL-JOY-OSO".

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## FLAGSHIP MARITIME EVENT SETS 2025 DATES

Seatrade Maritime Logistics Middle East (SMLME) – the biennial maritime and logistics industry platform – returns 6-8 May 2025. Once again taking place at the Dubai World Trade Centre, the 3-day exhibition and conference will welcome maritime leaders, experts and policymakers from right across the world for this critical industry event.

Last held in May 2023 - under the patronage of the UAE Ministry of Energy and Infrastructure – the event saw its attendance grow by 190% to a record attendance of 7,394, for Looking to build on that success, Seatrade Maritime, organisers of the event and part of the Informa Markets' powerful events portfolio, want

2025 to smash all of its previous records over the event's 20-year lifespan and bring new features; partnerships and prominence to the event – the flagship exhibition and conference of UAE Maritime Week.

H.E Eng.Hessa AlMalek, Advisor to Minister for Maritime Transport Affairs, The UAE Ministry of Energy and Infrastructure said: "We at MOEI, have been working closely with all industry stakeholders to strengthen the maritime regulatory framework and governance, enhance human investment in the sector and improve the business environment. At a time when the business landscape is changing globally, to complement our

efforts, events such as Seatrade Maritime & Logistics Middle East are essential. Year after year, this event has helped the sector find solutions for challenges and discover valuable future opportunities. We are certain that the new upgraded 2025 edition will also continue to revolutionise the sector."

Part of ensuring 2025's success is frequent meetings with regional stakeholders and a Seatrade Maritime management roadtrip is planned for April 2024, which will start with an MOEI-led industry round table – in partnership with Seatrade Maritime; followed by a SMLME steering group gathering and culminating with an industry networking function.

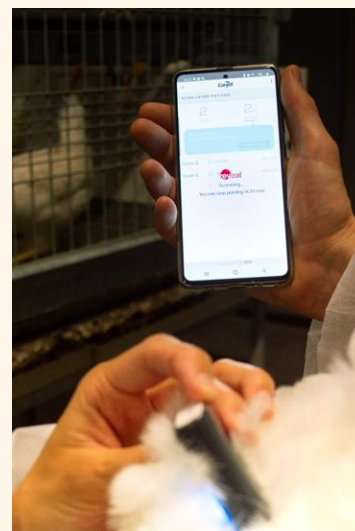
## CARGILL LAUNCHES REVEAL™ LAYERS, A FIRST-OF-ITS-KIND, NON-INVASIVE NIR TECHNOLOGY TO MONITOR THE BODY CONDITION OF POULTRY

As the poultry industry continues to explore ways to achieve gains in hen laying production, Cargill's REVEAL™ Layers can help poultry layer producers get there. Using Cargill's innovative, non-invasive Near-Infrared (NIR) technology, producers and nutritionists have immediate access to body composition assessments of their hens. This allows them to make real-time decisions regarding diets to support their flocks' long-term production and performance.

It is believed that overdeveloped fat pads in laying hens are problematic for long-term egg production and optimal liver function.

Cargill's REVEAL™ Layers uses NIR light technology to measure the bird's fat pads. The results are then uploaded and analysed, providing producers and nutritionists with actionable data which can be used to adapt the diet to achieve the optimal layer body composition. Not only could this trim feed costs, but it can also maximize egg production and boost profitability, setting a new standard in supporting the long-term performance of laying hens.

"REVEAL™ Layers is part of Cargill's holistic approach to monitor body fat and egg production, supporting the producer and nutritionist to make educated decisions regarding the diet. As we navigate the challenges of



feeding a growing global population, these insights pave the way for more sustainable and efficient poultry production," explains Lieske van Eck, Senior Scientist at Cargill.

## EVONIK IS DEVELOPING A NOVEL MICROBIAL CONSORTIUM TO REDUCE ANTIBIOTICS IN POULTRY FARMING

Evonik's Biotech Hub is partnering with the Technical University of Munich (TUM) and RWTH Aachen to develop a novel bacterial consortium to strengthen the immune system of chickens and to prevent the colonization by pathogens of their intestinal tract. The aim is to enhance health and help reduce the use of antibiotics. Evonik is both a partner in the three-year joint Chicken Synthetic Microbiota (ChiSYN) project and the

project coordinator. The total project volume is over €2 million and is funded by the project partners on a pro rata basis and by the Federal Ministry of Food and Agriculture (BMEL).

"For our health, we need healthy food and for that we need healthy animals," says Christoph Kobler, who heads the Biotech Hub. "Our innovative microbial consortium contributes to both animal health

and sustainable human nutrition."

The aim of the project partners is to develop a prototype feed additive that makes sure that "beneficial microorganisms" colonize the gut of chicks. To achieve this, bacteria that strengthen the immune system and make colonization by pathogens more difficult are selected from a broad population of chickens. The project partners then combine these microorganisms to create a novel consortium.

## KEMIN RESEARCH LEADS TO FDA APPROVAL OF CHROMIUM PROPIONATE FOR USE IN GROWING TURKEY DIETS

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, conducted extensive research that served as the basis for the U.S. Food and Drug Administration (FDA) Center for Veterinary Medicine's approval of the use of chromium propionate as a source of chromium in growing turkey diets. With this approval, chromium propionate is now approved for use in swine, broiler chickens, cattle, horses, and growing turkey diets. KemTRACE® Chromium from Kemin is the only FDA-reviewed source of chromium propionate on the market today and has been fed to millions of animals around the globe.



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## DSM-FIRMENICH EXTENDS SUSTELL™ TO COVER SEA BASS AND SEA BREAM

DSM-FIRMENICH has recently launched a marine fish module for Sustell™, allowing aquaculture producers of sea bass and sea bream to map the full environmental footprint of their operations.

In 2022 dsm-firmenich launched Sustell™ for salmon, with leading salmon producer Bakkafrøst as a development cooperation partner.

Backed by robust methodology, ISO certification and data connectivity, Sustell™ is the leading

life cycle assessment (LCA) solution for animal protein. Sustell™ provides the food value chain with a credible, science-based approach to collecting farm data, measuring the environmental footprint, and mapping a course for further development of the animal protein industry.

Louise Buttle, Sustell™ lead for Aqua & Global Key Account Manager at dsm-firmenich stated, "Now marine fish producers of

species such as salmonids, seabass and sea bream can conduct full life cycle assessment at scale, ensuring a strong return on investment and providing a credible and accurate footprint, and a great user experience! Extending the Sustell™ platform to include sea bass and sea bream is a demonstration of dsm-firmenich's commitment and continued innovations to further develop the sustainable production of seafood through aquaculture."

## STRONG EXHIBITOR INTEREST IN EUROTIER 2024



The EuroTier 2024 exhibition, 12-15 November in Hanover, Germany, is attracting a large number of international companies. With 2,000 exhibitors from 51 countries already currently committed nine months before the exhibition kicks off, the world's leading trade fair for animal farming and livestock management is at pre-pandemic levels, according to the organizer, the DLG, (German Agricultural Society).

All leading companies

from the poultry sector will be participating at the World Poultry Show, which will be part of EuroTier 2024. The global significance of EuroTier is underlined by the high number of country pavilions. National and regional pavilions from Canada, China, Finland, France, Northern Ireland, South Korea, the UK and the USA have been registered. EnergyDecentral, the international trade fair for decentralized power generation and agricultural energy and the Inhouse Farming - Feed & Food Show, the DLG's new

platform for self-contained food systems like indoor farming, will be held in parallel with the world's leading trade fair. The DLG is still taking exhibitor registrations.

Under the guiding theme "We innovate animal farming", the EuroTier innovation platform for the global livestock sector presents technical solutions and established standards for cattle, pig and poultry production. The topics of sheep and goats, boarding horses, aquaculture, alternative proteins and direct farm sales round off the exhibition and its technical program. The trade fair portfolio covers products and services for the entire value chain of foodstuffs of animal origin. These include genetics, feed and operating resources, husbandry and feeding systems, climate and environmental technology, digitalization, milking and cooling technology, manure management and manure removal, transport, processing, sales and marketing as well as services for agricultural production.

## DLG IMPULSE PITCHES INHOUSE FARMING FEED & FOOD 2023 LITE + FOG FROM BERLIN CLAIMS VICTORY

Lite + Fog GmbH from Berlin is the winner of the DLG Impulse Pitches 2023. The start-up company won the final round of live pitches, held on 15 November. The live presentations by the nominees, five pioneers, took place at the "Inhouse Farming - Feed & Food Show" of the DLG (German Agricultural Society) as part of Agritechnica 2023 in Hanover, Germany. Lite + Fog presented its innovation, the Fogponic Modules, to a trade audience and convinced the jury of experts. In addition to the depth of innovation and practical relevance, the aspects of economic efficiency and improvement of the environmental and energy situation were also decisive for the win.

A jury of experts selected five

nominees in advance from numerous international applications and on the basis of strict selection criteria. As part of the final round in Hanover, the pioneers presented their innovations in the form of short presentations ("Impulse Pitches"). Each participant had the chance to convince the expert commission of their innovative product or concept in a ten-minute presentation followed by a five-minute discussion round.

The decision of the expert jury was clear: Lite + Fog scored with its depth of innovation and practical relevance, but aspects of economic efficiency and the improvement of the environmental and energy situation were also ultimately decisive for the win.

The automated Fogponic Farming Modules from Lite + Fog offer a number of advantages. The hygienic standard of the modules makes it possible to grow plants and herbs for pharmaceutical projects, for instance. For example, it's possible to grow insulin in lettuce or an mRNA vaccine in tobacco plants. This is a completely new and fascinating field of agriculture - "Plant Molecular Farming".

As different as the nominated products, concepts and technologies of the finalists at the Inhouse Pitching were in their approaches - all of them have the potential for the new or further development of the production and value chain of indoor farming as well as alternative feed and food production.

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## INNOVATIVE SOLUTIONS LAUNCHES HUMISYN™ PRODUCTS FOR CONVENIENT, PROVEN GUT HEALTH

Innovative Solutions, a division of KENT Nutrition Group, introduces HUMISYN™, a synergistic blend of organic acid sources that shows great promise in helping to reduce the effects of a common disease in poultry by improving overall gut health.

Necrotic enteritis (NE) causes increased mortality, decreased growth performance and poor feed conversion rates in poultry. This disease is estimated to cause losses of nearly \$6 billion annually to the global poultry industry. Research has shown that improved overall gut health can help prevent

this disease which traditionally has been controlled with in-feed antibiotics.

"From our recent research trials, we've observed a reduction of over forty (40) percent in necrotic enteritis lesion scores," says Dr. Tom Weber, PhD, Innovative Solutions. "We have formulated the HumiSyn™ for two types of delivery—via water or through dry feed—that both see similar significant results."

HumiSyn™ IFC4 is a free-flowing additive for poultry feeds; and is a precise formula of naturally occurring organic acids and short-

chain fatty acid glycerides.

HumiSyn™ WSC4 is a concentrated liquid supplement for poultry which is easily administered via drinking water and is a scientifically researched and proven formulation of naturally occurring organic acids and short-chain fatty acid glycerides.

"Our HumiSyn solution is another technology that the KENT Nutrition Group has researched and found immediate performance impacts for the poultry industry," says Kale Causemaker, Senior Director, Innovative Solutions.

## EUROVETS HOSTS IDEXX EDUCATIONAL EVENT SHOWCASING NEW CUTTING-EDGE VETERINARY DIAGNOSTICS SOLUTION

Eurovets, an exclusive UAE-based IDEXX distributor, has recently wrapped up two highly successful seminars spotlighting advanced veterinary diagnostics and the latest technological breakthroughs in the field. The two events held in Dubai and Abu Dhabi attracted substantial interest and active participation from veterinary professionals.

Participants engaged in hands-on, interactive learning sessions which got them to further investigate patient's minimum database needs, with a specific focus on kidney disease, urinalysis, and electrolytes.

The key highlight of the events was the launch of IDEXX SediVue solutions. This state-of-the-art equipment offers unparalleled capabilities to any companion animal clinic when diagnosing urine sediments. Adding SediVue to the in-house laboratory setup will advance

the diagnostic capabilities of the veterinary clinic. IDEXX is a trusted name known for its accuracy and efficiency in veterinary diagnosis. The introduction of SediVue will contribute to improved patient care, provide accuracy in diagnosis, and save clinic's time while performing urinalysis.

"Eurovets is proud to highlight the availability of the SediVue instrument in the UAE, which will further enhance diagnostics. This underlines our commitment to introducing cutting-edge innovations in veterinary diagnostics in the region, reinforcing our role as a leader in elevating animal care standards," said Yakub Omarji, COO of Eurovets.

The success of these educational events reflects Eurovets' dedication to fostering continuous education and knowledge exchange within the veterinary community. With an unyielding focus on innovation and excellence, Eurovets remains at the



forefront of driving advancements in veterinary healthcare and shaping the future of the industry.

Eurovets distinguishes itself as a complete supply and solutions partner for all businesses in the animal care sector. Download the Eurovets App on iOS or Android devices and explore our comprehensive range of solutions today.

## CROSS-HEAD FEEDERS FOR MULTIHEAD WEIGHERS REDUCE OVERAGES AND OPTIMIZE SPEED

Proex Food adds a new productivity tool to their Vibratory Solutions products with their Cross-Head Feeders. These are must-haves for IQF/Frozen Food processors using multihead weighing systems.

PROEX FOOD Cross-Head Feeders convey and distribute product to the intake area of a multihead weighing system, commonly at or above the top cone. Product drops from a Feeder

through a carefully designed circular discharge to the weighing system. This specific discharge transition better meters product and spreads it more evenly across individual weigh cells.

Daniel Ghadiri, President and CTO at PROEX FOOD, explains: "PROEX FOOD Cross-Head Feeders help processors reduce overages required to meet minimum weights while optimizing the packaging

line. Calculations performed show they achieve an average of 97.8% accuracy of target weight. This vastly outperforms other systems such as straight discharges and belts, which only archive an average of 79% accuracy. Simply through reduced product waste, these high-value conveyors pay for themselves quickly, and that is before complementary speed, efficiency and hygiene improvements."

## BREEDERS POULTRY BELTS NOW OFFERING UNIQUE HYPOCHLOROUS (HOCL) CLEANSMART DISINFECTANT

All CleanSmart products are made with Hypochlorous (HOCL), a substance the human body produces to kill germs, protect and heal itself. It causes no harm, neither tissue damage nor skin irritation. Hypochlorous chemistry is approved for use both by the EPA and FDA.

HOCL has been used in the medical field for more than 100 years, and is a naturally occurring chemical produced by our white blood cells to fight bacteria and inflammation after an infection or trauma. Lethal to almost all known dangerous bacteria and viruses.

Unlike liquid bleach (sodium hypochlorite), it is safe to use around humans and animals, free of harsh, harmful or heavy chemicals, non-toxic and all-natural. Yet, it is 80-100 times more efficient at killing microbial pathogens. HOCL is used in many industries including cleanrooms, food, beverage and dairy, agriculture, water treatment, medical and dental facilities.



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## ARLA FOODS INGREDIENTS PARTNERS WITH ENORM TO HARNESS UPCYCLING POWER OF INSECTS

Arla Foods Ingredients has teamed up with ENORM, Northern Europe's largest insect farm, in a partnership that will significantly reduce food waste.

Delactosed permeate (DLP) is a residual dairy stream generated in large volumes during lactose production. Most DLP is currently used as material for biogas production, which is a less preferable option than re-use for animal feed according to the food

waste hierarchy set out in the EU's Waste Framework Directive.

Arla Foods Ingredients has long been investigating ways to address this challenge, but DLP's composition has previously made it difficult to use in traditional animal feed. This is about to change thanks to the larvae of the black soldier fly. Currently used by ENORM for animal feed, they also offer huge potential as a healthy and

sustainable source of protein for humans.

Having developed the capacity to turn DLP into nutritious feed for the larvae, Arla Foods Ingredients has been supplying ENORM with DLP for trial production for several years. However, recently ENORM has opened a major new facility in Flemming, Denmark, and gearing up for full-scale production.

## FAO AND GEF LAUNCH REDSEAFISH PROJECT TO PROMOTE SUSTAINABLE FISHERIES MANAGEMENT



The Food and Agriculture Organization of the United Nations (FAO) and the Global Environment Facility (GEF) have launched the RedSeaFish project, to promote sustainable fisheries management in the Red Sea Large Marine Ecosystem.

"The RedSeaFish project provides a collaborative framework to preserve and protect whole ecosystems efficiently while also providing opportunities for coastal Arab and African Red Sea countries to benefit sustainably from the services they render," said AbdulHakim Elwaer, FAO Assistant Director-General

and Regional Representative for the Near East and North Africa.

This project, with its elements of regional collaboration at its core, comes at a time when regional

collaboration on fisheries management is needed now more than ever.

The Red Sea is a unique water basin that supports one of the highest levels of endemism of marine biodiversity in the world, with an estimated 14.7 percent of its fish species endemic.

While fisheries' contribution to national GDP is usually not large amongst the Red Sea countries, fisheries are a particularly important source of livelihoods, food security and nutrition (especially for protein) for many Red Sea coastal communities. An estimated 85 000 people are directly engaged in fishing on the Red Sea and many more men

and women are employed in support roles supplying the fishing sector, or in the post-harvest sector. Assessments of stocks at the regional level are missing and vary at national levels; this is an important gap, as, it is impossible for governments and stakeholders to plan well when they do not know the extent of resources available for fishing and other activities.

The regional RedSeaFish project provides a collaborative framework to preserve and protect whole ecosystems efficiently while also providing opportunities for coastal Arab and African Red Sea countries to benefit sustainably from the services they render. This project, while regional in nature, will benefit the Red Sea coastal countries at the national level as well. It aims to improve data collection, assessment of stocks, regional cooperation and national frameworks for fisheries management.

## ARKION LIFE SCIENCES PROVIDES REVOLUTIONARY EGCEL IGY TECHNOLOGY

Arkion® Life Sciences, an up-and-coming disruptor in the field of biosciences providing innovative and natural solutions, is proud to announce the development of EgCel® IgY Technology, a groundbreaking advancement in the science of egg antibodies for greater immune health in livestock. This cutting-edge technology represents a significant leap forward in the

field of nutritional supplements, offering a new standard in immune support and gut health.

EgCel IgY Technology is a proprietary egg-based health intervention developed by Arkion Life Sciences, leveraging the power of Immunoglobulin Y (IgY) derived from egg yolk. Immunoglobulins are essential antibodies that play a crucial role in supporting the body's immune

system. Through a meticulous vaccination process, Arkion Life Sciences has harnessed the potent immune-boosting properties of IgY to create EgCel IgY Technology products which each offer unique, multivalent support: EggTek®-C for cattle (and other ruminants), EggTek-S for swine, EggTek-P for poultry and ActivEgg® for companion animals and equine.

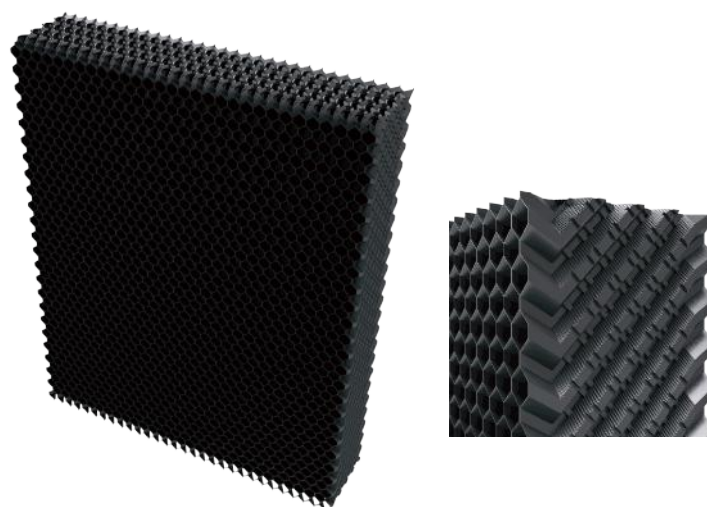
## ARM & HAMMER™ REORGANIZES TO MEET EVOLVING INDUSTRY NEEDS

Since 2018, Arm & Hammer Animal and Food Production has brought solutions to customers throughout the food chain. From natural animal feed additives to food safety antimicrobials, ARM & HAMMER holds a unique position in the food industry reaching from the farm or hatchery to the processing plant. They announce the restructuring of their internal organization to reflect the integrated approach they bring to customers.

Under the leadership of Roger Beers, Director, Global Integrated Food Production, the sales and technical teams serving poultry, swine and food production customers will now work as an integrated team bringing together the research, academic and industry experience of the team into one unit. The change in structure creates a single, unified team connecting all the links of the food chain.

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## NOVUS SOLUTIONS AVAILABLE TO EUROPEAN DAIRY MARKET

Dairy farmers in Europe wanting to enhance component yield, minimize feed costs and nitrogen emissions, and optimize cow comfort – ultimately creating a more sustainable industry – can now turn to NOVUS for help.

The intelligent nutrition company is now providing its nutritional feed solutions and expertise to dairy farmers in key markets in the European Union.

"NOVUS is well positioned to partner with dairy farmers in Europe due to its products

and services that can positively impact regional challenges like feed efficiency, milk production, and environmental sustainability," says Edwin Westreicher, Dr. sc. agr. habil., dairy technical services manager for NOVUS in Europe. "We're excited to bring our innovations to this market where we know they can make a sustainable difference and support dairy farmer's financial goals."

Known for strong environmental protections, regulations throughout the EU have required cows to be more productive. As

milk yield per cow has increased the total number of cows is decreasing in many countries in the EU. Regional Dairy Sales Manager Freek van Essen, DVM, says the production demands on cows make NOVUS

an ideal partner for ambitious dairy farmers.

"Our dry methionine product, MHA® Feed Additive, is an effective methionine source that is shown to maximize milk and component yields, especially during times of milk fat depression and heat stress," says Dr. van Essen. "This is a concern that is sure to grow as summer temperatures in parts of Europe continue to climb year after year."

Understanding that a balanced organic trace mineral program can help maximize herd performance and reduce feed costs, NOVUS also offers MINTREX® Bis-Chelated Trace Minerals to support reproductive performance and immune system health as well as help improve hoof hardness and milk component yields.



## MILLENNIAL SALMON PROJECT MAXIMIZES INCLUSION OF ALGAPRIME™ DHA KEEPING PERFORMANCE IN FEED PRODUCTION

New study from the Millennial Salmon Project, a strategic partnership among organizations along the value chain of salmon production. Conducted by Nofima and recently published in *Aquaculture*, the study confirms that AlgaPrime™ DHA can be added at varying levels without negatively impacting feed quality, and actually promoting a more stable process and pellet quality.

Primarily funded by the Research Council of Norway and made up of leading organizations Nofima, InnovaFeed, Corbion, Cargill, MOWI, Labeyrie Fine Foods, SINTEF Ocean and Auchan, the Millennial Salmon Project aims to create the world's most sustainable farmed salmon using novel ingredients

with a low carbon footprint and a focus on the circular economy.

The first round of research sought to determine optimal inclusion levels of AlgaPrime™ DHA LS — Corbion's algae-based omega-3 DHA-rich ingredient in liquid suspension — in feed for Atlantic salmon, evaluating the ingredient's effect on the feed production process. Variables examined included: physical pellet quality, expansion parameters and microstructure and later its digestibility. AlgaPrime™ DHA can be incorporated at two different moments in the feed production process: into the mix prior to extrusion and during pellet coating. Therefore, the maximum levels of AlgaPrime™ DHA inclusion in both moments was studied.

## INTRODUCING COSMOS, NEW PREMIUM DIET FOR BARRAMUNDI

The new diet aims to enable barramundi farmers to achieve optimal fish performance and farm efficiency.

Barramundi is rapidly gaining popularity in a growing number of seafood markets around the world, and to meet the rising demand for this high-quality white fish, many producers are scaling up their operations and harvests. To help them make the most of this significant opportunity, skretting is launching Cosmos, their new

premium grower feed that is tailor-made for farmed barramundi.

Utilising Skretting's extensive knowledge of the specific nutritional requirements and digestive capabilities of the species, Cosmos has been carefully developed over the past three years. It aims to enable producers of premium-quality barramundi to achieve optimal levels of fish performance and farm efficiency, including higher growth rates at a lower feed conversion levels.

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## ZOETIS FURTHER EXPANDS DIAGNOSTIC CAPABILITIES OF VETSCAN IMAGYST® PLATFORM

Zoetis Inc., the world leader in animal health, announced the expansion of its multi-application diagnostics platform, Vetscan Imagyst®, to include AI Urine Sediment analysis. The new application will enable accurate, in-clinic sediment analysis of fresh urine, allowing clinicians to make treatment decisions quickly. Powered by deep learning artificial intelligence (AI), Vetscan Imagyst AI Urine Sediment analysis offers veterinarians consistent, accurate results within minutes,<sup>1</sup> for optimal

individualized treatment plans that benefit both pets and pet owners. The launch of this newest application broadens the wide range of high-value, in-clinic diagnostics made possible by Vetscan Imagyst, helping veterinarians provide the best possible care for their canine and feline patients.

"Vetscan Imagyst is powered by cutting-edge AI, and AI Urine Sediment analysis offers the promise of expert-level results within minutes, streamlining workflows and allowing the veterinary team

to spend more time with their patients," said Richard Goldstein, DVM, DACVIM, DECVIM-CA, Vice President and Chief Medical Officer, Global Diagnostics Medical Affairs at Zoetis. "The addition of our newest application makes Vetscan Imagyst an even more powerful tool in the clinic. Its deep learning AI will help in the visualization and identification of urine sediment elements, which are often difficult to capture using traditional urine sediment examinations."

## FDO ELEVATES PRESENCE AT GULFOOD 2024, SPEARHEADED BY SIMAK

Fisheries Development Oman (FDO) had a successful participation at Gulfood 2024, the premier global food and beverage trade exhibition held in Dubai from February 19<sup>th</sup> to 23<sup>rd</sup>. FDO's participation not only underscored its dedication to excellence but also highlighted Oman's prominence in the seafood industry on a global scale.

As Gulfood 2024 comes to a close, FDO and its subsidiaries are geared to harness the momentum garnered from the event, continuing their mission to excel in the global seafood market.

The FDO booth buzzed with excitement as visitors explored the diverse range of offerings, with numerous prospects for future collaborations and business ventures on the horizon. Key highlights of FDO's participation at Gulfood 2024 included opportunities seized by its subsidiaries to explore

new markets and avenues for growth, leveraging their expertise and reputation to expand globally.

An added attraction to FDO's exhibition was a series of live cooking sessions featuring fresh Omani seafood, providing visitors with an immersive taste of Oman's rich culinary offerings. These sessions not only captivated attendees but also facilitated potential business expansion opportunities with suppliers and distributors, underscoring FDO's commitment to fostering meaningful industry connections.

FDO's triumphant presence at Gulfood 2024 further solidified its position as a major player in the global fisheries industry. The event showcased Oman's



thriving fisheries sector, drawing significant attention from investors and industry professionals alike.

Zakariya, CEO of SIMAK, remarked, "Our participation at Gulfood 2024 has been pivotal in highlighting Oman's seafood industry potential. Through SIMAK, we offer unmatched opportunities for white labeling and cannery services, bolstered by our status as the region's largest cannery. The visitor interest underscores the rising demand for top-quality seafood products."

## CURBING ANTIMICROBIAL RESISTANCE IN THE POULTRY VALUE CHAIN THROUGH THE FARMER FIELD SCHOOL APPROACH IN ZIMBABWE

The Food and Agriculture Organization of the United Nations (FAO) concluded a three-week long training for Farmer Field Schools (FFS) Facilitators to contribute towards curbing the development of antimicrobial resistance (AMR) in the poultry value chain in Zimbabwe. The objective was to train participants on the FFS methodology; facilitation skills and strengthen their capacity in data collection for biosecurity, antimicrobial use (AMU) and economics related to poultry production. The training was concluded through a graduation ceremony held in Bulawayo on 24 February

2024 which was attended by farmers, senior government officials and extension officers, development partners and FAO representatives from the subregion.

"Through this comprehensive training workshop, the facilitators have gained experience about the intricacies of setting up and guiding farmer field schools, conducting comparative experiments, and collecting essential data to assess the impact of biosecurity interventions. Armed with a diverse array of skills ranging from sustainable poultry production to disease identification and curriculum development, the graduates

will emerge as agents of transformation within their communities," said Mark Obonyo, AMR Programme Lead on behalf of Patrice Talla, FAO Subregional Coordinator for Southern Africa.

The FFS methodology in the livestock sector is relatively new, having been adopted and implemented more in the crop production sector in Zimbabwe. Broiler FFS specifically serve as participatory hubs of knowledge transfer, equipping farmers with the necessary skills to navigate production while promoting the prudent use of antimicrobials to combat AMR.



**PARMA.7|10 MAY.2024**



## HILUCIA™ BY INNOVAFEED: A NEW BRAND TO UNLOCK THE POWER OF HERMETIA ILLUCENS

In order to support the acceleration of its production and sales growth, which more than doubled in 2023, Innovafeed unveils its new brand Hilucia™, redesigning its offer around a complete range of high-quality ingredients for animal and plant nutrition, with minimal environmental impact.

Hilucia™ embodies the combination of the exceptional upcycling capabilities of the *Hermetia illucens* larvae with the cutting-edge technology developed by Innovafeed's teams.

The Hilucia™ range is the result of an extensive effort made in recent years by Innovafeed's teams and is based on four fundamentals:

1. Strategic partnerships developed with major players in each industry such as Cargill for aquaculture (insect proteins), Archer Daniels Midland (ADM) for pet food (insect

proteins and oils), and Hello Nature for agriculture (insect frass). These partnerships ensure that Innovafeed maintains a strong momentum across all markets – both in France and abroad.

2. Committed to minimizing the environmental impact of the company and its products. Accredited as a B Corp company since 2022, Innovafeed recently released its first Impact Report in January 2024; and since February 2024 has been a certified member of the Pet Sustainability Coalition in the pet segment.

3. Nutritional expertise acquired through trials conducted at both laboratory and commercial scales. The Hilucia™ range is based on a deep understanding of the needs of each species. It is thus tailored based on in vivo studies to provide the best zootechnical performance

possible. This is particularly the case in aquaculture, where Innovafeed is involved in the Millennial Salmon project among others, which includes 8 leading organizations across the value chain and aims to bring to market the most sustainable farmed salmon in the world.

4. The strict adherence to the most demanding quality standards. The recent acquisition of a Marketing Authorization (AMM) for its organic fertilizer in France is a recognition of Innovafeed's expertise and excellence, opening up the opportunity to offer an innovative and effective solution in a broad market of 7 million tonnes (according to Unifa) with growing demand. This authorization complements an already ongoing deployment in several other European countries with our partner Hello Nature, a global specialist in organic fertilizers.

## ENHANCING DAIRY FARMING SUSTAINABILITY WITH SOYA ALTERNATIVES

Reduce your carbon footprint with UFAC's new supplement, cholymet, created as the precursor to eradicating soya bean meal in ruminant animal feed.

There have long been concerns with the efficiency and sustainability of dairy farming and its impact on the environment. UFAC's latest supplement, cholymet, was developed to address the environmental concerns associated with the widespread use of soya bean meal in animal feeds.

Soya bean meal is typically used in food and animal feeds as a protein source due to its favourable amino acid profile. However, soya production is heavily debated within the agricultural industry due to its association with substantial

carbon emissions and environmental footprint.

While many assume that soya is mainly used for human consumption and an alternative to dairy or meat-based products, according to the World Wide Fund for Nature (WWF), almost 80% of the world's soya bean crop is used in the production of feed for livestock.

Cholymet was developed to address the need for more sustainable practices and offers a solution to reduce the amount of soya bean meal fed to dairy cows without losing farm



performance and profitability.

cholymet is a finely granulated, easily pourable rumen-inert supplement for dairy cows. It serves as a crucial addition to the diet of dairy cows by offering essential amino acids and vitamins for herd health and productivity.

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# SUCCESSFUL CONCLUSION TO VIV AND HAN MEA 2023: SHOWCASING THE FUTURE OF THE SEED TO FOOD INDUSTRY IN ABU DHABI

The 4<sup>th</sup> edition of VIV MEA, held from November 20<sup>th</sup> to 22<sup>nd</sup> in Abu Dhabi, in co-location with Horti Agri Next MEA, delivered a dynamic event, marking a positive continuation in the region for the global animal husbandry and agribusiness industry

**V**IV and HAN MEA 2023 demonstrated a strong foundation in B2B international business in the Middle East and North Africa region. Over three days, the show encouraged face-to-face meetings, networking, information exchange, and a bustling marketplace in Abu Dhabi, UAE. With 10,080 visitors from 113 countries, the event maintained its consistent attendance and even exceeded the previous edition.

The co-located events featured 500 exhibitors from 50 countries, showcasing the latest developments of the agrifood industry in the five halls at Abu Dhabi's prestigious venue ADNEC, in a collective of more than 17,500 sqm of gross exhibiting space. One third of the visitors came from the UAE, with countries like Egypt, Iraq, Iran,

Pakistan and Saudi Arabia ranking on top right after. 67% of the total visitors onsite indicated interest in both events.

## Inspirational Speaker Line-up

Over 80 renowned industry experts, and visionaries took center stage as part of the event's comprehensive speaker line-up. More than 37 sessions, presentations and panel discussions delved into recent industry trends, challenges, and opportunities, providing invaluable insights for all attendees, in both the animal livestock production and the arable and controlled environment agriculture industry.

A series of sessions, including the AgritectureXchange panel discussions led by Agritecture CEO, Henry Gordon-Smith, as well as speed dating with roundtables



session on the first day, and a special program organized by the Abu Dhabi Agriculture Food and Safety Authority (ADAFSA) covered a wide spectrum of topics crucial to the future of Agriculture in the region. HubOrange, the Dutch Poultry Center, Dutch Green House Delta, and many other industry partners also contributed with vibrant sessions throughout the three days..

## Aquafeed Extrusion & Nutrition Conference:

On the 19<sup>th</sup> of November, a one-



day conference organized by Perendale Publishers, sponsored by aquaculture leaders like Skretting and Blue Aqua, focused on the topics of the production and extrusion of aquatic feed along with the nutrition and farming for fish and shrimps.

### **Poultry Marketing Round Table (PMRT):**

For its 3<sup>rd</sup> edition, MEAP, WATT Global Media and VIV gathered academics, technicians, poultry producers, governors, and end

consumers in a Round table to discuss and come up with solutions and clarifications to anticipate to future uncertainties.

### **A long-awaited co-location during the Abu Dhabi Food and Security Week**

The co-location of VIV MEA and HAN MEA 2023 provided an opportunity to explore the entire agribusiness industry, proving the importance of connection among animal production, precision farming, rural cultivation, and innovative

horticultural techniques. By holding these two events at the same time, at the same venue, during the Abu Dhabi Food and Security Week, the organizer managed to highlight that integrating the entire industry's value chain is key to resilient and sustainable agricultural eco-systems.

VIV and HAN MEA will return from November 25 to 27, 2025, in Abu Dhabi, to set yet another milestone as the region's top industry platforms.

# SLOW GROWING CHICKEN IS TASTY AND HEALTHY

**Dr.T.Kotaiah**, Managing Director,  
Indbro Research & Breeding Farms  
Pvt.Ltd., Hyderabad, INDIA

**T**he growth rate and feed efficiency of the broiler chicken has improved tremendously and is still improving with the genetic research and development of the primary breeding companies.

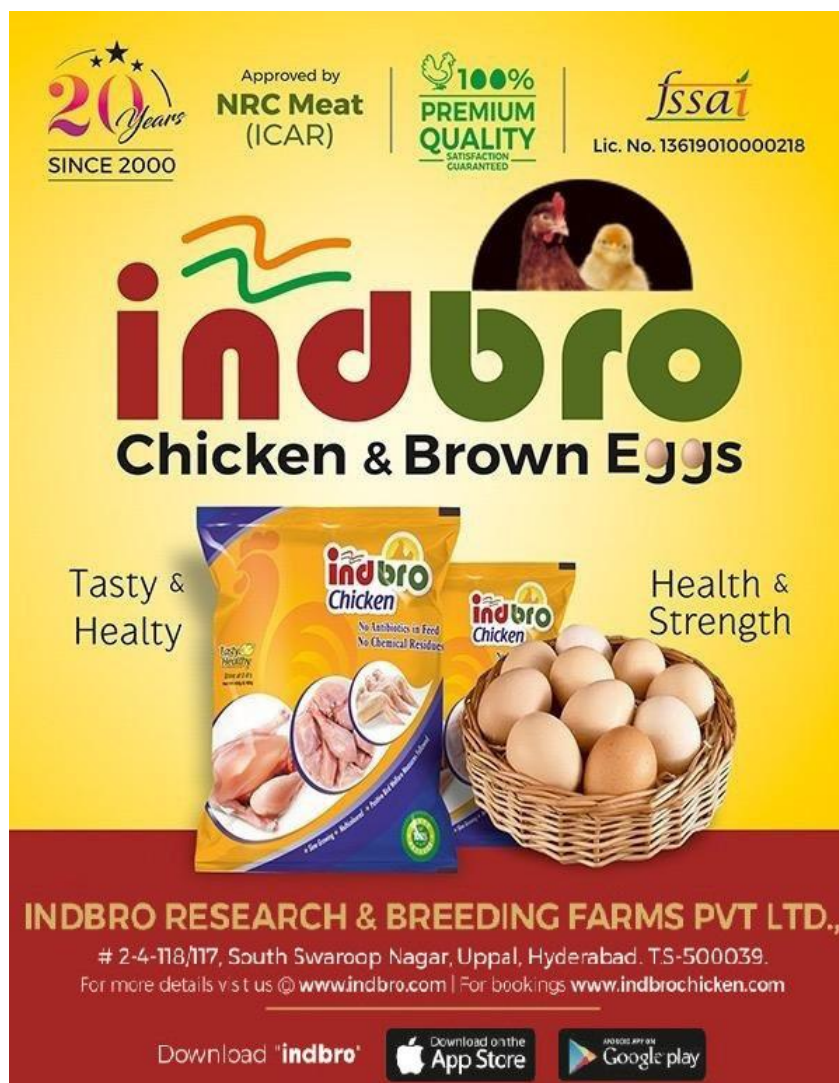
The 2kg slaughter age of the broiler has come down from 45 days to 35 days during the last 10 years. Many countries rear the broilers up to 3.5 kilograms and above to harvest one kilogram breast used in deboned meat preparations. The meat of these heavy broilers is compact and hard. Complaints like Woody Breasts, white muscle stripes of dead tissue problems are seen.

The genetic improvement is still being pursued and the slaughter age may still go down. The price of chicken is moving up much slowly compared to other food in the consumer market and the chicken is becoming more popular animal food source for the growing population of the world.

The rich and welfare conscious society is looking for better food and are ready to spend more on the preferred food. Animal welfare activists are recommending slow growing birds with more movement. Free moving fighter type birds are being bred as alternate breeds for this niche market in countries like India.

The slowing of growth is being achieved through dwarf gene broilers, low density feeds and rearing with more space to roam around. Most of these broilers are coloured and look different. Different combination of bird strains are used to produce tasty and healthy food by few companies. Indbro Research & Breeding Farms Pvt. Ltd. in India has developed one such slow growing coloured broilers and got it compared through the National Meat Research Institute of India.

Meat Research comparing the fast and slow growing broilers found more gaps in the muscle tissue of the slow growing birds and this meat absorbs the cooking additives better and the taste is added. The muscles are



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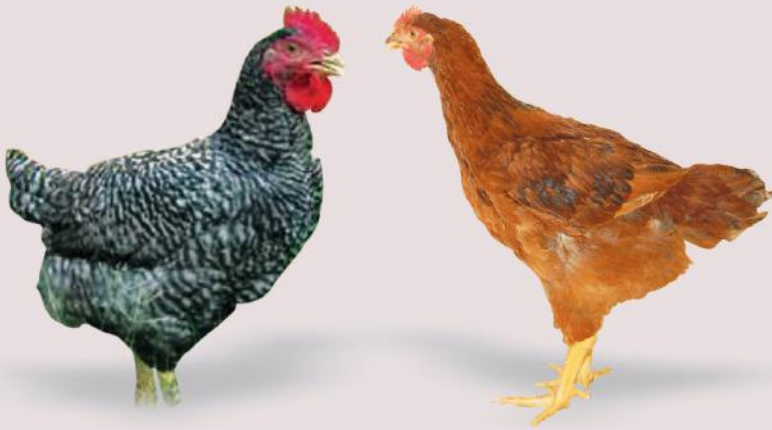
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- Tasty & Healthy Chicken

ICAR –NATIONAL RESEARCH CENTRE FOR MEAT (AN ISO2008 ORGANIZATION), CHENGICHERLA, HYDERABAD, TELANGANA TESTED THE CHICKEN AND FOUND

| MEAT CHARACTERISTICS                  | INDBRO CHICKEN | BROILER CHICKEN |
|---------------------------------------|----------------|-----------------|
| DRESSING %                            | 69.63%         | 72.56%          |
| BREAST MEAT                           | 22.94%         | 29.15%          |
| THIGH& DRUMSTICK                      | 27.51%         | 25.18%          |
| WINGS                                 | 18.44%         | 12.47%          |
| WATER HOLDING CAPACITY                | 16.00%         | 14.25%          |
| BOUND WATER                           | 60.08%         | 58.14%          |
| 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%          |
| PROTEIN                               | 20.37%         | 19 %            |
| FLAVOUR                               | 7.13           | 6.64            |
| TENDERNESS                            | 7.19           | 6.77            |
| JUICINESS                             | 7.21           | 6.72            |
| ACCEPTABILITY                         | 6.975          | 6.832           |
| COLOUR INTENSITY                      | DARKER         | WHITE           |
| FATTY ACID COMPOSITION                |                |                 |
| Myristic acid (C14:0) - SFA           | 0.05           | 0.11            |
| Palmitic acid (C16:0) - SFA           | 1.99           | 4.34            |
| Palmitoleic acid (C16:1) - MUFA       | 0.26           | 0.93            |
| Stearic acid (C18:0) - SFA            | 0.78           | 1.32            |
| Oleic acid (C18:1 n7c) - MUFA         | 2.31           | 5.82            |
| Gamma Linoleic acid (C18:3 n3) - PUFA | 0.11           | 0.09            |
| Eicosenoic acid (C20:1) - MUFA        | 0.07           | 0.00            |
| Arachidonic acid (C20:4 n6) - PUFA    | 0.05           | 0.00            |
| SATURATED FATTY ACIDS                 | 0.28           | 0.58            |
| MONO UNSATURATED FATTY ACID           | 0.28           | 0.70            |
| POLY UNSATURATED FATTY ACIDS          | 0.18           | 0.09            |
| RATIO SFA :MUFA: PUFA                 | 1.0:1.5:1.5    | 0.82:1.00:2.25  |
| OPTIMUM RATIO -                       | 1:1:1          |                 |
| SENSORY EVALUATION                    |                |                 |
| Total subjects: 168                   |                |                 |
| Preference -Numbers                   | 122            | 46              |
| Preference %                          | 72.62          | 27.38           |





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## INDBRO COLOURED BROILER

### COLOURED BROILER PERFORMANCE

| AGE<br>DAYS | WEIGHT<br>MALES | WEIGHT<br>FEMALES | WEIGHT<br>AVERAGE | FEED PER<br>B/D | FEED PER<br>B/WK | FEED PER<br>B/CUM | FCR | MORTALITY |
|-------------|-----------------|-------------------|-------------------|-----------------|------------------|-------------------|-----|-----------|
| 7           | 143             | 137               | 139               | 17              | 139              | 139               | 0.9 | 0.75      |
| 14          | 225             | 206               | 215               | 28              | 215              | 215               | 1   | 1         |
| 21          | 305             | 279               | 292               | 35              | 305              | 305               | 1.3 | 1.25      |
| 28          | 410             | 380               | 395               | 45              | 410              | 410               | 1.5 | 1.3       |
| 35          | 500             | 460               | 480               | 55              | 500              | 500               | 1.7 | 1.85      |
| 42          | 585             | 545               | 565               | 65              | 585              | 585               | 1.8 | 1.5       |
| 49          | 660             | 615               | 637.5             | 75              | 660              | 660               | 1.9 | 1.7       |

## INDBRO RAINBOW ROOSTER

| Age | Weight | Average | Per Day | Week | Feed | Feed | Cumulative | Mortality % |
|-----|--------|---------|---------|------|------|------|------------|-------------|
| wks | Males  | Females |         |      |      |      |            |             |
| 1   | 110    | 105     | 107.5   | 15   | 105  | 105  | 0.93       | 0.75        |
| 2   | 250    | 220     | 235     | 25   | 175  | 260  | 1.19       | 1           |
| 3   | 450    | 400     | 425     | 80   | 350  | 830  | 1.48       | 1.25        |
| 4   | 700    | 600     | 650     | 75   | 525  | 1155 | 1.78       | 1.5         |
| 5   | 1000   | 850     | 925     | 100  | 700  | 1855 | 2.01       | 1.35        |
| 6   | 1450   | 1150    | 1300    | 125  | 875  | 2730 | 2.1        | 1.5         |
| 7   | 1800   | 1550    | 1675    | 150  | 1050 | 3780 | 2.26       | 1.7         |
| 8   | 2200   | 1900    | 2050    | 160  | 1120 | 4900 | 2.35       | 1.9         |

## INDBRO BROWN LAYER

Age at Maturity

Age at 50% Production

Age at Peak Production

Peak Production

Hen Housed eggs to 80weeks

Color of Eggs

Average Egg weight

Body weight at maturity

Body weight at end

Feed to 20weeks

Feed consumption during Lay

140days

154days

160days

93%

350eggs

Dark Brown

60gms

1650gms

2.2kgs

7kg

120gms/day

## INDBRO ASEEL

### ASEEL - PERFORMANCE

| AGE | DAYS | MALES | FEMALES | AVERAGE | FEED/D | FEED/WK | CUM FEED | FCR   | MORTALITY |
|-----|------|-------|---------|---------|--------|---------|----------|-------|-----------|
| 7   |      | 90    | 85      | 87.5    | 12     | 84      | 84       | 0.824 | 0.75      |
| 14  |      | 170   | 140     | 155     | 18     | 126     | 196      | 1.265 | 1         |
| 21  |      | 270   | 230     | 250     | 25     | 175     | 371      | 1.484 | 1.3       |
| 28  |      | 380   | 330     | 355     | 37     | 259     | 630      | 1.775 | 1.4       |
| 35  |      | 500   | 440     | 470     | 45     | 315     | 945      | 2.011 | 1.5       |
| 42  |      | 600   | 500     | 550     | 54     | 378     | 1323     | 2.067 | 1.6       |
| 49  |      | 700   | 580     | 640     | 65     | 455     | 1778     | 2.117 | 1.7       |
| 56  |      | 800   | 680     | 740     | 75     | 525     | 2303     | 2.331 | 1.8       |
| 63  |      | 900   | 780     | 840     | 85     | 595     | 2903     | 2.512 | 1.9       |
| 70  |      | 1000  | 880     | 940     | 95     | 665     | 3568     | 2.679 | 2         |
| 77  |      | 1100  | 980     | 1040    | 105    | 735     | 4303     | 2.87  | 2.1       |
| 84  |      | 1200  | 1080    | 1140    | 115    | 805     | 5108     | 2.962 | 2.2       |
| 91  |      | 1300  | 1180    | 1240    | 125    | 875     | 5983     |       |           |
| 98  |      | 1400  | 1280    | 1340    | 135    | 945     | 6928     |       |           |
| 105 |      | 1500  | 1380    | 1440    | 145    | 1015    | 7943     |       |           |
| 112 |      | 1600  | 1480    | 1540    | 155    | 1085    | 9028     |       |           |
| 119 |      | 1700  | 1580    | 1640    | 165    | 1155    | 10183    |       |           |
| 126 |      | 1800  | 1680    | 1740    | 175    | 1225    | 11408    |       |           |
| 133 |      | 1900  | 1780    | 1840    | 185    | 1295    | 12703    |       |           |
| 140 |      | 2000  | 1880    | 1940    | 195    | 1365    | 14068    |       |           |
| 147 |      | 2100  | 1980    | 2040    | 205    | 1435    | 15503    |       |           |
| 154 |      | 2200  | 2080    | 2140    | 215    | 1505    | 17008    |       |           |
| 161 |      | 2300  | 2180    | 2240    | 225    | 1575    | 18583    |       |           |
| 168 |      | 2400  | 2280    | 2340    | 235    | 1645    | 20228    |       |           |
| 175 |      | 2500  | 2380    | 2440    | 245    | 1715    | 21943    |       |           |
| 182 |      | 2600  | 2480    | 2540    | 255    | 1785    | 23728    |       |           |
| 189 |      | 2700  | 2580    | 2640    | 265    | 1855    | 25583    |       |           |
| 196 |      | 2800  | 2680    | 2740    | 275    | 1925    | 27508    |       |           |
| 203 |      | 2900  | 2780    | 2840    | 285    | 2000    | 29503    |       |           |
| 210 |      | 3000  | 2880    | 2940    | 295    | 2070    | 31568    |       |           |
| 217 |      | 3100  | 2980    | 3040    | 305    | 2140    | 33703    |       |           |
| 224 |      | 3200  | 3080    | 3140    | 315    | 2210    | 35908    |       |           |
| 231 |      | 3300  | 3180    | 3240    | 325    | 2280    | 38183    |       |           |
| 238 |      | 3400  | 3280    | 3340    | 335    | 2350    | 40528    |       |           |
| 245 |      | 3500  | 3380    | 3440    | 345    | 2420    | 42943    |       |           |
| 252 |      | 3600  | 3480    | 3540    | 355    | 2490    | 45428    |       |           |
| 259 |      | 3700  | 3580    | 3640    | 365    | 2560    | 47983    |       |           |
| 266 |      | 3800  | 3680    | 3740    | 375    | 2630    | 50608    |       |           |
| 273 |      | 3900  | 3780    | 3840    | 385    | 2700    | 53303    |       |           |
| 280 |      | 4000  | 3880    | 3940    | 395    | 2770    | 56068    |       |           |
| 287 |      | 4100  | 3980    | 4040    | 405    | 2840    | 58903    |       |           |
| 294 |      | 4200  | 4080    | 4140    | 415    | 2910    | 61813    |       |           |
| 301 |      | 4300  | 4180    | 4240    | 425    | 2980    | 64798    |       |           |
| 308 |      | 4400  | 4280    | 4340    | 435    | 3050    | 67848    |       |           |
| 315 |      | 4500  | 4380    | 4440    | 445    | 3120    | 70973    |       |           |
| 322 |      | 4600  | 4480    | 4540    | 455    | 3190    | 74173    |       |           |
| 329 |      | 4700  | 4580    | 4640    | 465    | 3260    | 77448    |       |           |
| 336 |      | 4800  | 4680    | 4740    | 475    | 3330    | 80793    |       |           |
| 343 |      | 4900  | 4780    | 4840    | 485    | 3400    | 84213    |       |           |
| 350 |      | 5000  | 4880    | 4940    | 495    | 3470    | 87708    |       |           |
| 357 |      | 5100  | 4980    | 5040    | 505    | 3540    | 91278    |       |           |
| 364 |      | 5200  | 5080    | 5140    | 515    | 3610    | 94923    |       |           |
| 371 |      | 5300  | 5180    | 5240    | 525    | 3680    | 98643    |       |           |
| 378 |      | 5400  | 5280    | 5340    | 535    | 3750    | 102443   |       |           |
| 385 |      | 5500  | 5380    | 5440    | 545    | 3820    | 106318   |       |           |
| 392 |      | 5600  | 5480    | 5540    | 555    | 3890    | 110268   |       |           |
| 399 |      | 5700  | 5580    | 5640    | 565    | 3960    | 114293   |       |           |
| 406 |      | 5800  | 5680    | 5740    | 575    | 4030    | 118393   |       |           |
| 413 |      | 5900  | 5780    | 5840    | 585    | 4100    | 122568   |       |           |
| 420 |      | 6000  | 5880    | 5940    | 595    | 4170    | 126818   |       |           |
| 427 |      | 6100  | 5980    | 6040    | 605    | 4240    | 131143   |       |           |
| 434 |      | 6200  | 6080    | 6140    | 615    | 4310    | 135543   |       |           |
| 441 |      | 6300  | 6180    | 6240    | 625    | 4380    | 140018   |       |           |
| 448 |      | 6400  | 6280    | 6340    | 635    | 4450    | 144568   |       |           |
| 455 |      | 6500  | 6380    | 6440    | 645    | 4520    | 149193   |       |           |
| 462 |      | 6600  | 6480    | 6540    | 655    | 4590    | 153893   |       |           |
| 469 |      | 6700  | 6580    | 6640    | 665    | 4660    | 158668   |       |           |
| 476 |      | 6800  | 6680    | 6740    | 675    | 4730    | 163518   |       |           |
| 483 |      | 6900  | 6780    | 6840    | 685    | 4800    | 168443   |       |           |
| 490 |      | 7000  | 6880    | 6940    | 695    | 4870    | 173443   |       |           |
| 497 |      | 7100  | 6980    | 7040    | 705    | 4940    | 178518   |       |           |
| 504 |      | 7200  | 7080    | 7140    | 715    | 5010    | 183668   |       |           |
| 511 |      | 7300  | 7180    | 7240    | 725    | 5080    | 188893   |       |           |
| 518 |      | 7400  | 7280    | 7340    | 735    | 5150    | 194193   |       |           |
| 525 |      | 7500  | 7380    | 7440    | 745    | 5220    | 199568   |       |           |
| 532 |      | 7600  | 7480    | 7540    | 755    | 5290    | 205018   |       |           |
| 539 |      | 7700  | 7580    | 7640    | 765    | 5360    | 210543   |       |           |
| 546 |      | 7800  | 7680    | 7740    | 775    | 5430    | 216143   |       |           |
| 553 |      | 7900  | 7780    | 7840    | 785    | 5500    | 221818   |       |           |
| 560 |      | 8000  | 7880    | 7940    | 795    | 5570    | 227568   |       |           |
| 567 |      | 8100  | 7980    | 8040    | 805    | 5640    | 233393   |       |           |
| 574 |      | 8200  | 8080    | 8140    | 815    | 5710    | 239293   |       |           |
| 581 |      | 8300  | 8180    | 8240    | 825    | 5780    | 245268   |       |           |
| 588 |      | 8400  | 8280    | 8340    | 835    | 5850    | 251318   |       |           |
| 595 |      | 8500  | 8380    | 8440    | 845    | 5920    | 257443   |       |           |
| 602 |      | 8600  | 8480    | 8540    | 855    | 5990    | 263643   |       |           |
| 609 |      | 8700  | 8580    | 8640    | 865    | 6060    | 269918   |       |           |
| 616 |      | 8800  | 8680    | 8740    | 875    | 6130    | 276268   |       |           |
| 623 |      | 8900  | 8780    | 8840    | 885    | 6200    | 282693   |       |           |
| 630 |      | 9000  | 8880    | 8940    | 895    | 6270    | 289193   |       |           |
| 637 |      | 9100  | 8980    | 9040    | 905    | 6340    | 295768   |       |           |
| 644 |      | 9200  | 9080    | 9140    | 915    | 6410    | 302418   |       |           |
| 651 |      | 9300  | 9180    | 9240    | 925    | 6480    | 309143   |       |           |
| 658 |      | 9400  | 9280    | 9340    | 935    | 6550    | 315943   |       |           |
| 665 |      | 9500  | 9380    | 9440    | 945    | 6620    | 322818   |       |           |
| 672 |      | 9600  | 9480    | 9540    | 955    | 6690    | 329768   |       |           |
| 679 |      | 9700  | 9580    | 9640    | 965    | 6760    | 336793   |       |           |
| 686 |      | 9800  | 9680    | 9740    | 975    | 6830    | 343893   |       |           |
| 693 |      | 9900  | 9780    | 9840    | 985    | 6900    | 351068   |       |           |
| 700 |      | 10000 | 9880    | 9940    | 995    | 6970    | 358318   |       |           |
| 707 |      | 10100 | 9980    | 10040   | 1005   | 7040    | 365643   |       |           |
| 714 |      | 10200 | 10080   | 10140   | 1015   | 7110    | 373043   |       |           |
| 721 |      | 10300 | 10180   | 10240   | 1025   | 7180    | 380518   |       |           |
| 728 |      | 10400 | 10280   | 10340   | 1035   | 7250    | 388068   |       |           |
| 735 |      | 10500 | 10380   | 10440   | 1045   | 7320    | 395693   |       |           |
| 742 |      | 10600 | 10480   | 10540   | 1055   | 7390    | 403393   |       |           |
| 749 |      | 10700 | 10580   | 10640   | 1065   | 7460    | 411168   |       |           |
| 756 |      | 10800 | 10680   | 10740   | 1075   | 7530    | 419018   |       |           |
| 763 |      | 10900 | 10780   | 10840   | 1085   | 7600    | 426943   |       |           |
| 770 |      | 11000 | 10880   | 10940   | 1095   | 7670    | 434943   |       |           |
| 777 |      | 11100 | 10980   | 11040   | 1105   | 7740    | 443018   |       |           |
| 784 |      | 11200 | 11080   | 11140   | 1115   | 7810    | 451168   |       |           |
| 791 |      | 11300 | 11180   | 11240   | 1125   | 7880    | 459393   |       |           |
| 798 |      | 11400 | 11280   | 11340   | 1135   | 7950    | 467693   |       |           |
| 805 |      | 11500 | 113     |         |        |         |          |       |           |

# EBENFELD HUTTERIAN BRETHREN ENHANCES POULTRY PRODUCTION WITH BIOTHERM'S CUTTING EDGE HEATING SYSTEM

**E**benfeld Hutterian Brethren, a sixth-generation poultry farming facility, has successfully improved their operations by implementing BioTherm's innovative DuoFin® Perimeter heating system. This forward-looking solution has proven essential in maintaining optimal poultry conditions during harsh Canadian winters, ensuring healthier poultry production and greater egg yields.

Ebenfeld Hutterian Brethren's facility, located in Moose Jaw, Saskatchewan, boasts two barns, spanning 12,500 and 32,000 square feet, respectively. Specializing in free-run poultry and pullet farming, the facility faced the significant challenge of safeguarding their flocks against frigid Canadian temperatures. Maintaining optimal conditions was crucial for the well-being of their chickens and sustaining their impressive egg production of

25,000 eggs per day.

In November 2022, Ebenfeld Hutterian Brethren made the strategic decision to invest in BioTherm's DuoFin Perimeter heating system. The choice was prompted by the need for a reliable heating solution and the challenges faced during the COVID-19 pandemic, which hindered communications with an overseas heating system provider.

According to Don Hofer of Ebenfeld Hutterian Brethren, "We looked at heating systems from Holland, but it was during the pandemic and couldn't get ahold of anyone. We did a quick Google search and found BioTherm, who was located on the same continent, so we decided to give the local guys a try. We want to support 'local,' and we're so glad we did."

The results of this investment were exceptional. The DuoFin system demonstrated its efficiency and reliability during the harsh



winter months. Despite external temperatures plummeting to -40°C (-40°F), the heating system efficiently raised the barn's internal temperature to a comfortable 36°C (96.8°F) in a short time.

Don Hofer also praised the ease of installation of the DuoFin system, saying, "The DuoFin system was really easy to install - that was great. The DuoFin heating system is efficient and has no problem doing what we need it to do. We needed a system that doesn't collect too much dust, and it's perfect for our barns. Sleek and puts out the heat!"

Furthermore, Ebenfeld Hutterian Brethren expressed their satisfaction with the experience of working with the BioTherm team. Don Hofer emphasized his positive interactions with the team, especially with Haley Rader, stating, "Right from the start, I really enjoyed working with the BioTherm team, especially Haley. We just clicked! Such a great experience. I recommend anyone to work with BioTherm - whether it's heating poultry barns or greenhouses."

Jim Rearden, President of BioTherm, expressed his





enthusiasm for the success of the DuoFin Perimeter heating system and its potential to impact a range of industries, saying, "We are excited to launch this product into other industries other than greenhouses, like livestock confinement. Ebenfeld's success story showcases the versatility and effectiveness of our heating solutions."

Ebenfeld's success story is a testament to BioTherm's dedication to providing effective and reliable heating solutions for agricultural operations. This case study illustrates the positive impact of the DuoFin Perimeter heating system on poultry production and highlights the importance of supporting local businesses during challenging times.

### **Benefits of Hydronic Heating in Poultry Production:**

- 1.) Helps brooding chicks maintain healthy nutrition status
- 2.) More energy efficient compared to forced air equivalents
- 3.) Allows for enhanced control of each specified zone



- 4.) US-owned, designed, and made
- 5.) Quiet
- 6.) Hygienic
- 7.) Light and requires a small footprint
- 8.) No risk of fires
- 9.) Centralized for easier maintenance
- 10.) Any energy sources can be

- used to make hot water
- 11.) Doesn't produce CO<sub>2</sub> or other noxious fumes
- 12.) Fully modulating to match load

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For more information about BioTherm's cutting-edge heating solutions and their work with Ebenfeld Hutterian Brethren, please visit [www.biothermsolutions.com](http://www.biothermsolutions.com)

**W**eighing broilers is a crucial aspect of poultry farming, providing valuable insights into the health, growth, and overall performance of the birds.

OPTICON AGRI SYSTEMS offers automatic bird weighing:

This methods contribute to effective broiler management and optimizing production outcomes.

### Spot Weighings:

#### A) Practical Problems:

Spot weighings can be challenging due to the need for manual handling and potential bird stress. Catching and weighing individual birds can cause disturbance within the flock, leading to increased stress levels.

#### B) Statistical Problems:

Spot weighings might not provide a comprehensive representation of the entire flock's growth. Variability in individual bird weights can skew data, making it necessary to conduct multiple spot weighings for a more accurate assessment.

### Regular Daily Weighings:

Regular daily weighings involve monitoring the weight gain of broilers consistently throughout their growth period. This approach provides a more accurate and reliable dataset for assessing the flock's overall performance.

### How to Weigh Broilers:

#### Hand Weighing:

##### A) Practical Problems:

The number of birds to weigh is a critical consideration. Randomly selecting a subset of birds may not accurately represent the entire flock, leading to skewed data.

##### B) Automatic Bird Weighing:

### Advantages:

- Provides continuous and real-time data.
- Minimizes stress on birds as they are not manually handled.



# WHY WEIGH BROILERS?

- Offers a more accurate representation of the entire flock.
- Automatic Bird Weighing using Hanging Scales.
- Integration with OPTICON AGRI SYSTEMS enables seamless data collection.
- Real-time monitoring allows for timely interventions.
- Enables precise tracking of growth patterns.

### Disadvantages:

- Initial setup costs.
- Some maintenance is essential to ensure accurate readings.

### Current Use of Broiler Scales:

Broiler scales are currently employed in modern poultry farms worldwide. The integration of automatic weighing systems, such as those offered by OPTICON AGRI SYSTEMS, has become increasingly common. These systems contribute to more efficient and data-driven poultry management.

### The Future:

The future of broiler weighing involves further advancements in automation and data analytics. Integration with artificial intelligence (AI) and machine learning can enhance predictive capabilities, allowing farmers to anticipate growth patterns, detect health issues early, and optimize feed

efficiency.

In conclusion, weighing broilers is a fundamental practice in poultry farming, aiding in effective management and maximizing production outcomes. OPTICON AGRI SYSTEMS offers regular daily weighings, with more reliable comprehensive data collection. Hand weighing poses practical and statistical challenges, emphasizing the need for automation.

Automatic bird weighing, particularly using hanging scales, presents advantages such as continuous real-time data, stress reduction for birds, and accurate representation of the entire flock. While initial setup costs and maintenance are considerations, the benefits of enhanced data accuracy and timely interventions outweigh these drawbacks.

Current industry trends indicate a widespread adoption of broiler scales, especially those incorporating advanced technologies. The future holds promises of further automation, integration with AI and machine learning, and improved predictive capabilities. This trajectory aims to empower poultry farmers with tools to optimize growth, health, and overall productivity in the evolving landscape of poultry farming.

For more information, contact [info@opticon-agri.com](mailto:info@opticon-agri.com)

# MTECH SYSTEMS IS CHANGING THE LANDSCAPE WHILE OPENING NEW OPPORTUNITIES FOR SUCCESS

**F**eed mills are undergoing rapid transformation driven by technological advancements, changing consumer preferences, and sustainability concerns. As the world's leading provider of software solutions for the feed industry, MTech Systems is committed to driving innovation and sustainability across the

feed production landscape.

From digitalization and automation to sustainable practices and ingredient optimization, the feed mills of the future are poised to revolutionize animal nutrition and enhance agricultural sustainability.

Amino, our crown jewel software comes equipped with cutting-edge management and planning capabilities to help producers unlock new opportunities for efficiency, quality, and environmental stewardship.

Now is the time to leverage digital tools, data analytics, and sustainable practices to meet the increasing demand while minimizing costly waste, clerical errors, and environmental impact.

## The Evolution of Feed Mills

Feed mills have evolved significantly over the years, from manual operations to highly automated facilities equipped with state-of-the-art controllers and sensors.

Advances in equipment design, process optimization, and ingredient sourcing have enabled feed producers to improve efficiency, consistency, and product quality.

Today, feed mills are transitioning towards

digitalization, automation, and sustainability to meet the growing demands for animal nutrition while minimizing resource consumption and environmental footprint.

## The Challenges

The feed industry faces several challenges, such as:

### 1. Ingredient Sourcing:

Ensuring a consistent supply of high-quality ingredients is essential for producing nutritious and cost-effective feed.

**2. Quality Control:** Maintaining product quality and safety standards throughout the production process is a constant challenge for feed mills.

**3. Environmental Impact:** Feed production has significant environmental implications, including resource consumption, greenhouse gas emissions, and waste generation.

**4. Regulatory Compliance:** Compliance with stringent regulatory requirements adds complexity and costs to feed production operations.

**5. Market Dynamics:** Fluctuations in commodity prices, consumer preferences, and trade policies pose challenges for feed producers.

For more information, visit [www.mtechsystems.io](http://www.mtechsystems.io)



## AGROLOOP COMMISSIONS BÜHLER TO PROVIDE PROVEN INSECT REARING TECHNOLOGY

**H**ungarian insect producer Agroloop has chosen Bühler's sophisticated insect growth system for its industrial black soldier fly plant. The facility will produce up to 4,000 tonnes of animal feed ingredients per year and will be built in Üllő, Hungary. Swiss technology group Bühler will deliver its proven crate-based nursery and rearing technology, which will enable a quick ramp-up of the plant for commercial production. By the end of 2024, Agroloop plans to launch its first products, contributing to a more sustainable animal feed value chain.

Following its foundation in 2017 and the successful operation of a pilot facility, Agroloop got the green light for the implementation of an industrial insect plant in Hungary in 2022. Now they have selected all execution partners and are working at full speed to construct the plant and get it operational. The insect facility will be realized in an existing building of the Aerozone Park in Üllő, which is located next to the Budapest Ferenc Liszt International

Airport. In the new plant Agroloop – supported by Bühler insect technology expertise – will produce more than 25,000 tonnes of black soldier fly larvae that will be turned into sustainable feed ingredients for the pet food, aquaculture, and livestock sector.

The plant is only the first step in Agroloop's strategy to make insect feed ingredients available for the Central and Eastern European (CEE) agribusiness. "The abundance of food processing by-products presents a unique opportunity for Agroloop's multi-plant rollout strategy in the CEE region. Leveraging our strategic partnership with the leading regional feed producer UBM Group, we improve feed quality and sustainability creating future-proof feed formulas. This enables Agroloop to focus on rapid expansion and solidifies our position as a key player in the region," says István Nagy, co-founder and CEO of Agroloop.

### Proven technology for short ramp-up time

Agroloop employs a local engineering company to integrate

the various technology packages. The heart of this system is the insect growth technology, which mainly determines the plant yield and has a major effect on business performance. For their insect growth system, Agroloop has selected Bühler's nursery and rearing technology, which has several years of a track record in the insect industry. "We've meticulously assembled a best-in-class technology supplier portfolio to build our plant. Bühler plays a crucial role in providing the framework and core components for this design. By choosing Bühler's technology, Agroloop can enter the value chain with the highest standards," says István Nagy.

Andreas Baumann, Head of Market Segment Insect Technology at Bühler, added: "We are very proud to be part of this pioneering project for the CEE region and delighted to see that our solutions will contribute to more sustainable feed supply chains."

For more information, visit [www.buhlergroup.com](http://www.buhlergroup.com)

# AL DAHRA'S AL TANNAF REVOLUTIONISES ACCESS TO ANIMAL FEED WITH INNOVATIVE APP

**T**he first of its kind e-commerce and retail platform, Al Tannaf, has been redefining the animal feed industry in the UAE. Al Tannaf is an integral division of Al Dahra, one of the leaders in the agribusiness and animal feed industry internationally and is on a mission to provide high-quality animal feed products specifically formulated to cater to the nutritional needs of camels, sheep, goats, poultry, horses, and other large farm animals that are bred. Al Tannaf is not just a brand that blends tradition and innovation, but a testament to Al Dahra's commitment to quality and convenience.

"Sourcing feed has never been simpler," says Fahad Ghanem, a devoted local farmer. "Al Tannaf's app is a gateway to a wide assortment of feeds, each tailored to meet specific animal requirements. It's not just about placing an

order; it's about finding the perfect nutritional balance for our animals — the process is swift, seamless, and secure."

Farmers across the UAE are embracing Al Tannaf's transformative experience, which represents a convenient e-commerce application for customers that prioritises user-friendliness and security. For those who prefer a more traditional approach, Al Tannaf offers expert guidance across 10 strategically located stores in Dubai and Abu Dhabi.

Global partnerships enhance Al Tannaf's offerings, ensuring a consistent supply of high-quality ingredients from around the world. Al Tannaf caters to diverse animals, from camels to goats and poultry, guaranteeing top-notch nutrition year-round. But Al Tannaf's ethos extends beyond commerce: It's a journey from seed to feed, reflected in

its slogan 'From the Perfect Seed to the Perfect Feed.' This is a commitment encapsulated across all touchpoints, from selecting the finest seeds to formulating nutritional feeds.

In the spirit of generosity, Al Tannaf announces a special promotion: with every purchase of Altannaf alfalfa, customers will receive complimentary Wafi compound feed pellet bags—a token of appreciation for the farmers' dedication and a delightful treat for their animals. Interested customers can download the Al Tannaf app from the Google Play and App Store or visit [www.altannaf.com](http://www.altannaf.com) for more information.

Al Tannaf, a division of Al Dahra, continues to lead the way in global feed and forage supply, demonstrating a dedication to agricultural excellence and innovation.



**A**s per a new Fact.MR analysis, the global animal feed probiotics market is anticipated to expand at a CAGR of 9.1%, increasing from its current value of US\$ 5 billion to US\$ 12 billion by the end of 2032.

With rising consumption of protein-rich diets across the globe, key players are improving the production of animal feed probiotics. Moreover, to prevent the outbreaks of cattle-based or poultry-based diseases, end users are increasing the adoption of these probiotics. This is resulting in increased research and development activities among

development of animal feed are also expected to drive demand for probiotics. Hence, key manufacturers are focusing on developing new probiotics due to their restrictive effect on digestive diseases.

However, the regulatory bodies such as the U.S. Food and Drug Administration have banned the usage of antibiotics as feed supplements for poultry and livestock animals. Hence, key players such as Evonik, Novozymes, Chr. Hansen, and others are focusing on developing high quality probiotics to gain revenue. On the back of these aforementioned factors, the

- In terms of source, the lactobacillus, streptococcus, and yeast categories are likely to account for lion's share in the market.

- Based on animal, the poultry segment is expected to showcase an upward trajectory in the upcoming decade.

#### **Growth Drivers:**

- Rising prevalence of intestinal disorders among poultry and other livestock animals will improve the demand for animal feed probiotics.

- Growing focus on animal health to prevent animal-based disease outbreaks will aid the

# ANIMAL FEED PROBIOTICS MARKET TO HIT US\$ 12 BILLION BY 2032

leading players to capitalize on growing demand.

As per the study, animal feed probiotics help in maintaining a healthy gut and digestive tract. Consequently, livestock animals are frequently fed animal feed probiotics as vital ingredients. Bifidobacterium and lactobacillus are considered to be the two main sources used in the production of animal feed probiotics. However, rising awareness regarding the health benefits of yeast and fungi consumption will also boost the sales.

Additionally, increasing popularity of organic livestock and advancements in

demand in animal feed probiotics market is expected to surpass US\$ 12 Billion by the end of 2032.

#### **Key Takeaways:**

- India is projected to remain at the forefront in Asia Pacific animal feed probiotics market, generating revenues worth US\$ 208.5 Million.

- The U.S. animal feed probiotics market is slated to expand at 4.8% CAGR during the forecast period.

- By form, the liquid segment is expected to generate maximum profits in animal feed probiotics market by 2032.

growth in animal feed probiotics market.

- Surging production of compound feed and consumption of animal-based products will spur the sales of animal feed probiotics.'

#### **Key Restraints:**

- High research and development costs for the development of new and advanced probiotic strains might limit the sales in emerging economies.

- Presence of stringent international regulations and quality procedures for animal feed probiotics is likely to restrain the growth.

**Competitive Landscape:**

Leading players in the animal feed probiotics market are focusing on launching effective and innovative products to gain competitive edge. Some of the industry giants are forming alliances with mergers & acquisitions and product development related to livestock to generate maximum profits, especially across Europe and East & South Asia.

Meanwhile, other players are establishing strong distribution networks through manufacturing facilities across India, China, Japan, Kore, Germany, and other countries in Europe. They are also collaborating with end users to expand their brand presence.

For instance,

- In September 2022, BASF and Evonik, announced the partnership and entered into an agreement, granting Evonik non-exclusive rights to Opteinics™ to reduce the environmental footprints of the animal feeds probiotics industry by introducing digital ready-to-use sustainability platform.

- In 2021, Chr. Hansen announced the launch of Bovacillus™, an animal probiotic to support dairy and beef cattle health and performance. The company claims that this animal feed probiotic can also be used in a variety of feed applications.

These insights are based on a report on Animal Feed Probiotics Market by Fact MR.

# UNLOCKING THE POTENTIAL: JEFO PROTEASE ENHANCES BROILER PERFORMANCE AND GUT HEALTH

In the dynamic world of poultry farming, maximizing feed efficiency while maintaining animal health stands as a top priority to ensure the farm's economic sustainability. In the current context of high raw material prices, the use of enzymes has emerged as a key strategy. A study conducted at Brazil's Federal University of

Rio Grande do Sul brings forth compelling evidence regarding the benefits of protease supplementation on broiler chickens.

## The Role of Enzymes

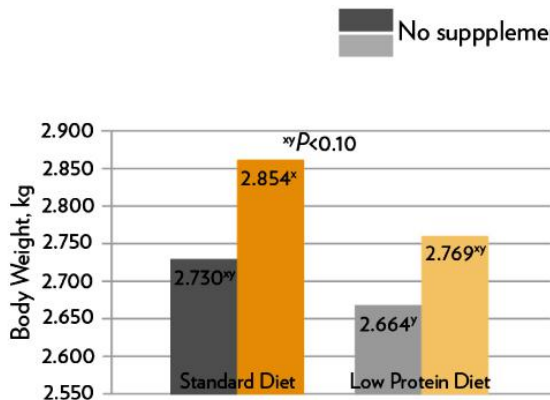
Enzymes and additives have revolutionized broiler nutrition, allowing nutritionists to formulate diets with reduced protein levels.

This approach not only cuts down on feed costs but also addresses environmental concerns by lowering nitrogen excretion and minimizing the risk of enteric infections. However, achieving the right balance between protein reduction in the diet and the effectiveness of additives remains crucial for achieving peak animal performance.

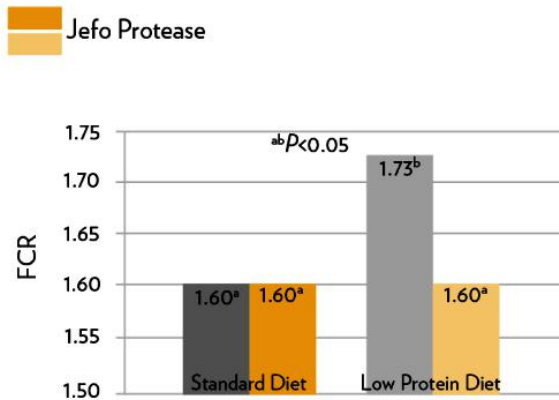
## The Study

The above-mentioned study compared four distinct treatments to assess the impact of Jefe Protease on the performance and intestinal health of birds fed standard and low-protein diets (with a 6% reduction in crude protein and essential amino acids) according to the Brazilian Tables for Poultry and Swine recommendations. A four-phase feeding program was employed,

|    | Supplementation | Feed Formulation |
|----|-----------------|------------------|
| T1 | –               | Standard diet    |
| T2 | Jefe Protease   | Standard diet    |
| T3 | –               | Low protein diet |
| T4 | Jefe Protease   | Standard diet    |



**Figure 1.** Body weight at 42 days.



**Figure 2.** Feed conversion ratio from 1 to 42 days.

and zootechnical performance and intestinal health indicators were evaluated during the 42 days of the trial. On day 28, ileum samples were collected and analyzed by the I See Inside Scoring System Methodology.

## Results

The study revealed noteworthy findings in both performance and intestinal health aspects:

- **Performance:** The 6% reduction in dietary crude protein and main digestible amino acids had an adverse effect on body weight and feed conversion ratio. However, Jefe Protease supplementation avoided these losses, promoting similar growth performance when compared to the standard diet group.

- **Intestinal health:** Birds supplemented with Jefe Protease

exhibited superior gut health based on the ISI index, particularly in lamina propria, epithelial thickness, and enterocyte proliferation. Based on this and numerous other studies, Jefe Protease emerges as a valuable addition to broiler diets, promising positive effects on growth performance, cost reduction, and intestinal health.

A. Non-supplemented bird: Enlarged lamina propria in a fused villi.

B. Jefe Protease-supplemented bird: Reduced amount of fused villi and more villi with thinner lamina propria.

C. Non-supplemented bird: Proliferated epithelial folds.

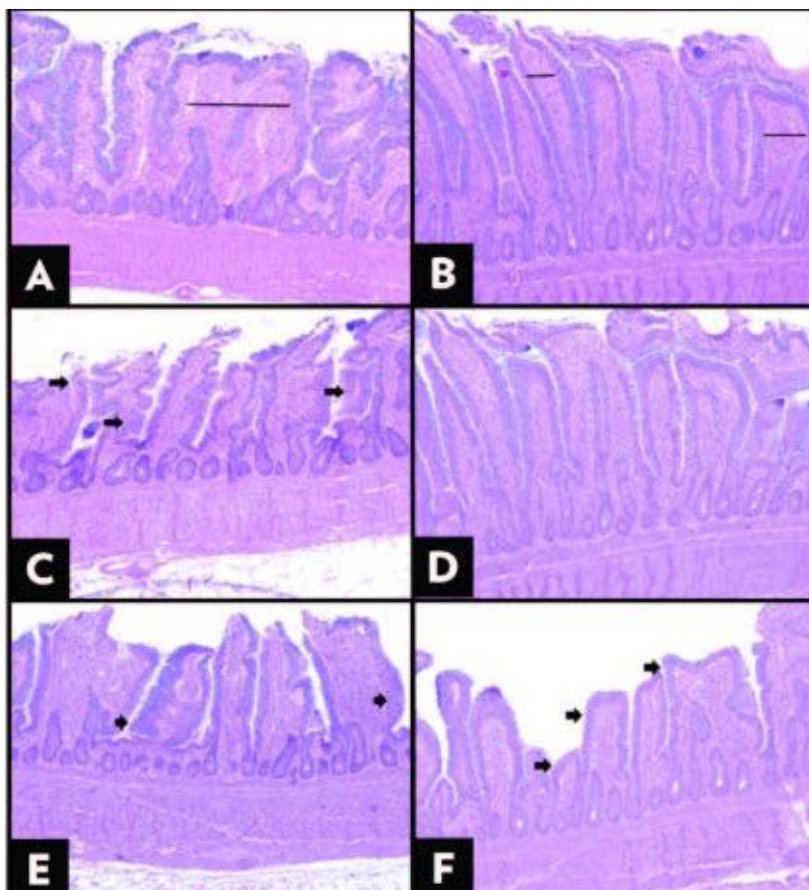
D. Jefe Protease-supplemented bird: Fewer proliferated epithelial folds.

E. Non-supplemented bird: Thicker epithelium.

F. Jefe Protease-supplemented bird: Thinner epithelium.

Jefe Protease emerges as a versatile solution, capable of improving zootechnical performance with a standard diet or acting as a strategic addition to low-density diets, reducing feed costs without compromising performance. Moreover, Jefe Protease positively impacts intestinal health, reinforcing its added value in broiler nutrition.

For more information, visit [www.jefe.ca](http://www.jefe.ca)



**M**any challenges confront today's dairy industry that require farmers to be knowledgeable, innovative, and constantly improving to stay competitive. Mastitis remains the most frequent health problem affecting the dairy industry as it is assessed by somatic cell count (SCC). Udder inflammation lowers milk quality, harms animal welfare and reduces the job satisfaction of dairy farmers. It also leads to substantial economic losses and increased use of antibiotics for mastitis treatment, which poses risks of antimicrobial resistance and milk contamination. A promising and innovative solution is to feed dairy cows with phytogetic feed additives like Anta®Phyt, which can boost their immune systems and prevent mastitis while reducing the need for antibiotics.

In a sense, SCC functions like two sides of a coin. As somatic cells are part of the innate immune system of dairy cows that provides a rapid and nonspecific response to foreign invaders, they are also an indicator of susceptibility to mastitis or poor udder health. White blood cells, such as neutrophils and macrophages, and epithelial cells are the main components of SCC. While the mammary gland's epithelial cells are usually shed and renewed, the white blood cells migrate to the site of infection and release various substances to kill or neutralize pathogens. They also produce cytokine signalling molecules that regulate inflammation and coordinate the immune response. However, SCC can also negatively affect the udder and milk quality. When SCC is too high or prolonged, it can cause tissue damage and impair milk synthesis. The



## DAIRY COWS: REDUCING CELLS THAT COUNT – NATURALLY

substances released by white blood cells can degrade the milk components, such as fat, protein, and lactose, and increase the somatic cell score (SCS), a logarithmic transformation of SCC. In the event of high SCS, milk's shelf life and processing value are reduced, increasing the risk of penalties or price deductions from milk buyers. Therefore, SCC is a complex and dynamic parameter that reflects the udder's balance between immunity and threat. A SCC below 200,000 cells/mL is considered normal and safe for individual cows, while a SCC above 500,000 cells/mL indicates clinical mastitis, a severe infection requiring immediate treatment. A SCC between 200,000 and 500,000 cells/mL may indicate subclinical mastitis, a mild infection that does not show visible symptoms but still affects milk quality and yield. Dairy farmers must monitor and manage SCC to optimize milk production, quality, animal welfare, and profitability.

Dairy herd health management is crucial in the fight against

antimicrobial resistance and antibiotic usage. It requires continuous hygiene improvement, frequent animal check-ups, regular herd screening for common diseases, and isolation of new animals before joining the herd. In addition, dairy cattle need suitable housing (good ventilation, appropriate humidity, low stocking densities, and good hygienic practices) to reduce stress and boost their welfare and immunity. As a crucial part of these management measures, high-performance phytoenes such as Anta®Phyt provide the essential extra benefit. By maximizing herd health and welfare with Anta®Phyt, the host immune function improves, and mastitis and other common dairy cattle diseases decrease, reducing the need for antibiotics. Anta®Phyt makes the difference between acceptable results and excellent performance, between just enough and long-term profitability. Don't settle for less – go for AntaPhyt.

For more information, visit [www.dr-eckel.de](http://www.dr-eckel.de)

# KLAREMELK: YOUR PARTNER FOR YOUNG ANIMAL NUTRITION



**A**s a family business, Klaremelk has been at home in nutrition for young animals for more than 60 years. Together with our national and international customers and partners, we always strive for better. We think from the point of view of the animal, so that we can make maximum use of the genetic potential of the young animal, with an eye for animal welfare.

We continuously improve based on knowledge and innovation, so that we can deliver constant top quality products to ensure optimal returns for the future. Because we keep calves and also trade in calves, we know what is going on in practice and we can test everything extensively.

## Fit for future

As a family business, we find sustainable relationships extremely important and we want to be next to our customers and partners

in the chain. We always offer customization and can deliver specific compositions, in smaller quantities, perfectly tailored to every situation. The farmer or customer can contribute ideas about compositions. We go for a personal approach, short lines and fast response time. National and international. We are always available, whoever in the company and prefer to stand next to our customers and partners, wherever they are, in order to give the best possible advice. Our focus areas include:

- Production of milk replacers for calves, piglets and lambs
- production of milk replacers for veal calves and rosé beef
- Veal meat production at own and contracted farms
- National and international sales of nutrition for young animals
- National and international purchase and sale calves
- Intensive guidance and

counselling services with regard to nutrition and rearing of young animals

- Continuous research and development in the field of nutrition and market developments

The history of Klaremelk dates back to the 1960s. H. Klarenbeek, Baker of profession chose at that time, because of penchant for calves and his extensive knowledge of high quality ingredients, to switch his production into producing milk replacer for calves. Passion and perfection combined. Key ingredients for success and satisfied customers. Klaremelk is nowadays a medium-sized company where the third generation shares the same passion and perfection, like their grandfather. Custom made young animal nutrition with the flexibility for individual wishes, needs and circumstances.

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For more information, visit [www.klaremelk.nl](http://www.klaremelk.nl)

# CNH INVESTS IN ECOFRIENDLY BALE STORAGE INNOVATOR NATURE'S NET WRAP

**C**NH, through our investment arm CNH Ventures, is supporting the scientific development of the first viable compostable net wrap for bales in agriculture. Our investment in the Canadian start-up Nature's Net Wrap aims to accelerate their mission to eliminate waste from the process of collecting and storing crops.

Shifting to compostable net wraps has the potential to significantly benefit farmers. It will reduce landfill use, haulage and disposal costs, eliminate soil contamination, improve animal

safety, and reduce the risk of water contamination, resulting in a reduction of approximately 2.5 million tons of plastic waste per year.

High growth in this market is propelled by the general demand for chemical- and plastic-free solutions. Initial product launch is expected in 2024.

## Baling in brief

When crop is cut, it is baled so that it can be transported and stored. Today, bales are held together with twine, wire,

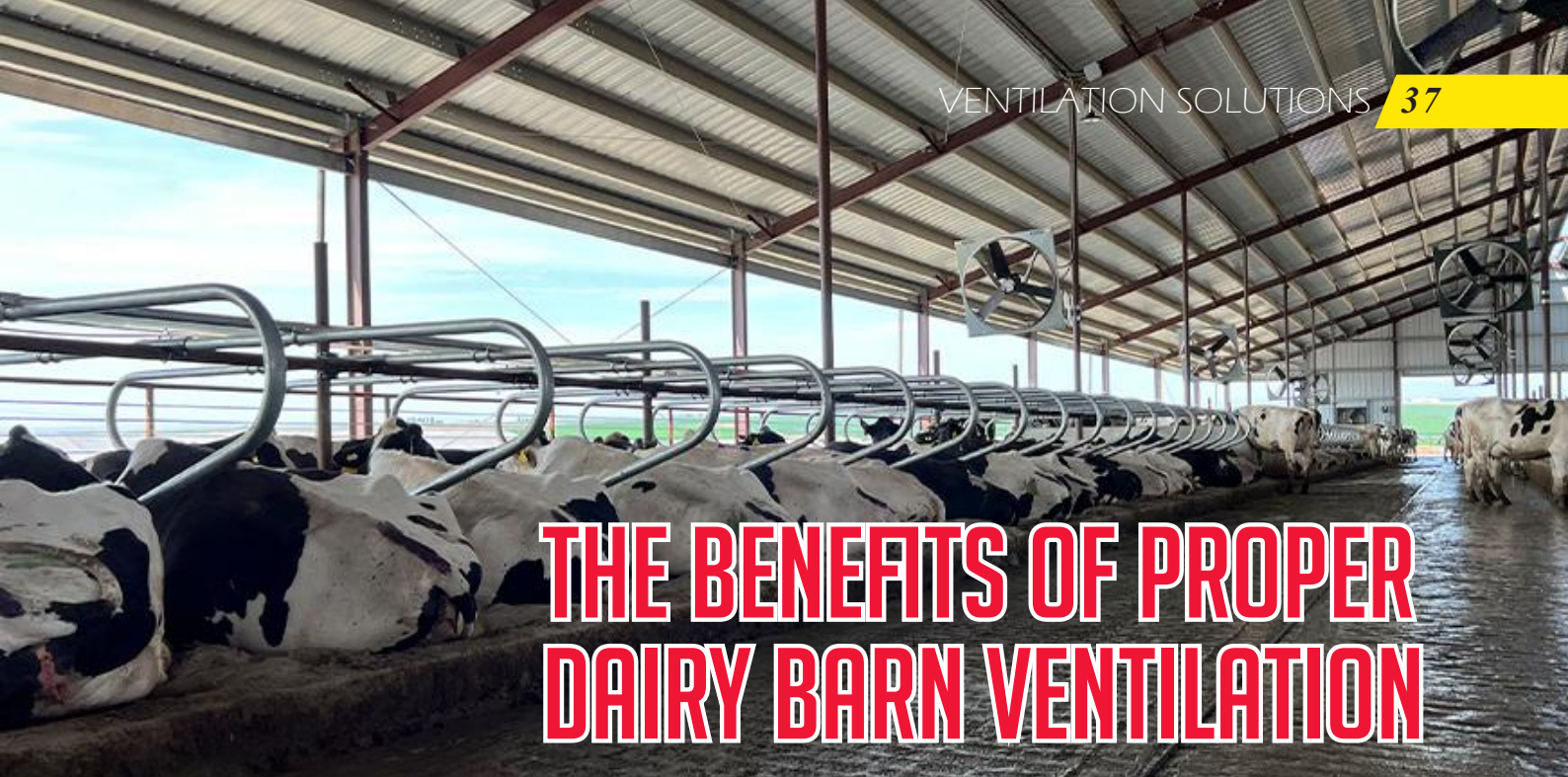
netting, or plastic wrap – all of which eventually end up in landfills or incinerators. Farmers are limited in the reuse or recycling of plastic wraps or nets, negatively impacting their environmental footprint.

## The innovation and its benefits

This solution uses biopolymer material made from renewable resources. It holds up structurally and can either naturally break down in the earth's soil or be composted. Our investment is supporting the testing and validation of the solution. One of the industry-leading balers from our New Holland Agriculture brand is producing all the bales in this testing phase.

This latest investment furthers CNH's commitment to sustainably advance the work of farmers everywhere.





# THE BENEFITS OF PROPER DAIRY BARN VENTILATION

**V**entilation is a critical aspect of dairy farming, with profound benefits for both the cows and the overall operation. Adequate ventilation in dairy barns ensures a comfortable and healthy environment for the cows, contributing to improved milk production and animal well-being. Let's explore five key advantages of proper ventilation in dairy cow facilities.

First and foremost, barn ventilation plays a pivotal role in maintaining optimal air quality. Adequate airflow helps dissipate harmful gases such as ammonia and carbon dioxide, which can accumulate in poorly ventilated barns. We typically want to see airspeeds at 3' from the bedding to range from 5 to 7 mph. This not only enhances the cows' respiratory health, but also minimizes the risk of diseases, while creating a cooling effect leading to a more productive herd during heat stress. While during the colder months, air exchange and movement are the key factors. When deciding on new construction builds, like natural ventilation with recirculation fans, tunnel or

cross ventilation with exhaust fans, airflow must be your main design factor.

Temperature control is another crucial advantage of ventilation. During hot summer months, effective ventilation systems help reduce heat stress in dairy cows. Research has shown that when THI (temperature humidity index) reaches 68, the cow begins to heat stress. At this point we need to begin being aggressive with temperature management. On the other hand, in cold weather, proper ventilation prevents the buildup of moisture and condensation, creating a warm and dry environment for the cows. Properly regulated temperatures year-round are key to maximizing milk production and reproductive efficiency.

Moreover, good ventilation contributes to cow comfort. It's plain and simple, cows that are comfortable produce more milk. Ventilation systems ensure that the barn environment remains comfortable by preventing temperature extremes and humidity buildup. A stress-free environment also reduces instances of lameness and other health issues, somatic cell count

risks, resulting in a longer and more productive life for the cows.

Effective ventilation promotes efficient feed consumption. That's the key word, "effective." Cows that are comfortable and have access to fresh, clean air tend to eat more consistently, leading to increased milk production. Proper air circulation also minimizes dust and airborne contaminants that can affect feed quality. This is vital in maximizing the nutritional intake of the cows, which directly impacts their milk output. How do you know you are purchasing "effective" ventilation products? Make sure your fans are tested from accredited ventilation sources like AMCA (Air Movement Control Association) or BESS Labs (The Bioenvironmental and Structural System) from University of Illinois. Most fan companies are sourcing fans from overseas, that have no third-party testing. Make sure your ventilation has reliable data.

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For more information, visit [www.jdmfg.com](http://www.jdmfg.com)

# NZMP LAUNCHES TOOLS TO INCREASE TRANSPARENCY OF PRODUCT LEVEL EMISSIONS DATA

**N**ZMP, Fonterra's dairy ingredients and solutions brand, has launched its new digital Carbon Footprinter, which will enable customers to access 2023 emissions data for the NZMP New Zealand sourced dairy products they purchase. Potential emission reductions for those products can also be forecasted out to 2030, based on the assumption that Fonterra successfully achieves its 2030 climate targets.

In an effort to continue leading the way and extend transparency with customers, the Carbon Footprinter follows the launch of the Fonterra Climate Roadmap late last year, which outlines Fonterra's current emissions position and the actions it will take to achieve its emissions reduction targets.

Gillian Munnik, Global Markets, Director Sales & Marketing, says the new Carbon

Footprinter is believed to be the first of its kind and scale in the dairy industry, and makes it quick and easy for customers to access NZMP product emissions data.

"We know that for many of our customers, our NZMP products form a large part of their Scope 3 emissions. We are being open and transparent and making it simple for our customers to understand how our climate plans and actions directly relate to the ingredients they purchase from us," says Munnik.

"Fonterra's New Zealand farmers already have one of the world's lowest on-farm emissions footprints, and this new tool demonstrates that NZMP has the dairy expertise and mindset to support our customers with their own emissions reduction journey."

Customers can select from NZMP's major

New Zealand sourced dairy product categories, input the volume bought and easily retrieve the emissions data of the products they purchase.

To provide independent assurance of NZMP product-level emissions, Carbon Footprint Certificates will also be available for customers to request free of charge via a New Zealand based and globally recognised sustainability accreditor, Toitū Envirocare.

Fonterra has been taking steps towards reducing its climate impact for many years, with actions including measuring its emissions footprint across its supply chain for more than 15 years and issuing annual sustainability reports since 2018.

To find out more about NZMP and its Carbon Footprinter, visit [www.nzmp.com](http://www.nzmp.com)





## STANDARDIZED SOLUTIONS FOR CREATING QSR PRODUCTS

**T**he market for portioned products can be very diverse, mostly depending on the type of end product. The QSR industrial standards formulate the strictest demands. The end product must be uniform, standardized, consistent and repeatable. In the QSR market, cooking time is also important, but the highest priority is given to the fact that products are 'always the same'. Marel has developed standardized production processes that comply with such precise specifications.

### Solutions, not machines

In the QSR market, products such as chicken burgers, chicken tender strips, skewer meat, nuggets and popcorn are all standardized. They have one thing in common: their production requires multiple cuts or multiple

processes. Single machines can't meet the requirements anymore, so complete solutions are necessary. Marel can support processors in making the right product-market combinations by implementing its dedicated standardized solutions.

### Raw material

If the end products should be QSR cubes, Marel can offer a standardized process and can also advise on the raw material. For making a fast-food cube, a calibrated product is preferable. That's because a weight-calibrated product gives a better uniformity of the end product and a better control of the process. However, purchasing calibrated raw material is more expensive than uncalibrated product. And the availability could sometimes be an issue.

### Flexibility

This standardized configuration can produce high volumes of in-spec cubes. Marel knows exactly how to produce the strips with the required characteristics and the right quality and avoid making them look like French fries. Irrespective of what kind of raw material is brought in, it is always possible to create a high-quality strip and cube.

This solution is very flexible. Processors who don't produce cubes day-in-day-out, want to make other types of products too. That can be done by adding a SensorX, a RoboBatcher or even another component to the line. In this way, the same portioning line setup can produce burgers, tenders, and schnitzels.

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For more information, visit [www.marel.com](http://www.marel.com)

# TASTE THE DIFFERENCE AUTHENTIC JAPANESE WAGYU

**J**apanese Wagyu beef is renowned worldwide as a premium quality beef for its beautiful marbling, melt-in-the-mouth texture and unique sweet aroma. The distinctive Wagyu flavour clearly sets it apart from other types of foreign beef and its attractions are recognised all over the world.

Overseas, especially in Europe and the USA, Japanese Wagyu beef tends to be served as sirloin or ribeye steaks; in Asia, Japanese-style dishes such as shabu-shabu and sukiyaki which



use slices of more basic cuts of meat are popular, especially in

Asian or Japanese restaurants.

Sirloin with its rich marbling is probably the most well-known way of serving Japanese Wagyu beef. However, other cuts, such as beef round, are also deliciously tender due to the fine marbling that epitomizes Japanese Wagyu. These cuts have their own appropriate way of cooking and serving, as well as being more reasonably priced than more expensive cuts like sirloin. This variety makes Japanese Wagyu beef a very versatile meat.

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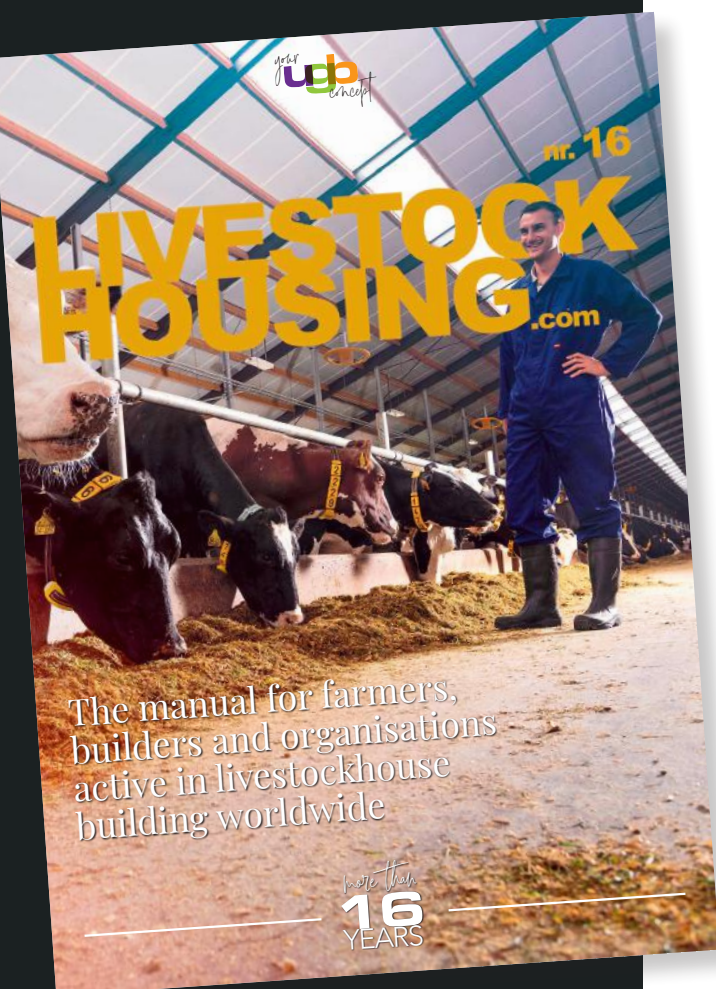
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