





Next Generation Thinking

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At **ADM Animal Nutrition** we're on a mission to change the world, one farm at a time, to sustain our future generations.

We believe that small steps can lead to significant impact.

With our global reach and unwavering passion for nutrition, innovation and problem solving, we're here to show our customers and farmers how to sustain their future generations through thriving businesses and feed the world sustainably.

We cherish our legacy of nutritional experience and working with farmers and for farmers for more than 120 years. We think in Generations: past and future. This is what makes us unique.

We're determined to make a difference in a world where more than \$600 billion is lost due to inefficiencies and health issues in farming.

We bring a new way of thinking to solve this challenge – what we call Next Generation thinking – that in turn delivers Next Generation solutions and services to take our customers to the next level of efficiency and sustainability.

Let's sustain the future together, where every farm and business counts towards a brighter tomorrow.

Together, we can secure/sustain the future with Next Generation thinking.

About this tool

Feed Additive & Ingredients portfolio

About this tool

This tool has been developed to help navigate the ADM Feed Additives and Ingredients portfolio.

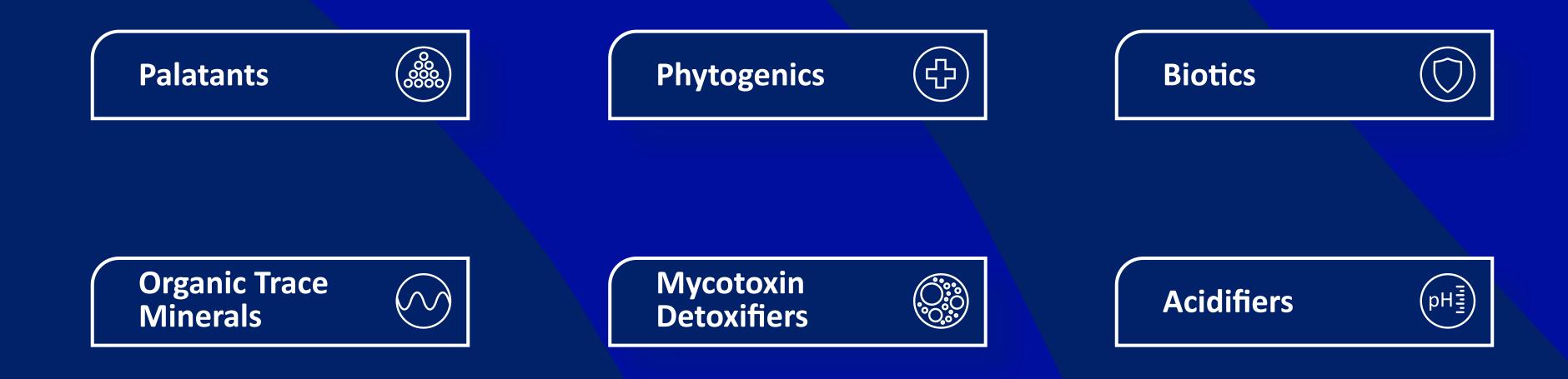
3 principles have driven its development.

- 1 Structure the portfolio according to customer need. In this regard, we have identified and verified with customers a set of 14 needs which have been segmented under the three strategic pillars
- 2 Identify the key product capable of delivering against an identified need and focus on this.
- **3** Keep it simple and consistent. Further information is available should it be required.

We hope you find this tool useful.



Feed Additive & Ingredients portfolio



Need state definitions

Instructions

Needs Vs. Solutions

Need state definitions

Nutrition utilization

1.1

• Levels of key nutrients in animal tissues or body fluids

• Nutrient utilization efficiency (e.g., apparent digestibility coefficients)

(e.g., blood plasma levels of vitamins, minerals)

Pillar **Customer Objective Example Metrics Tracked to Show Progress** Need Optimize quantity of animal products for **Yield** Average daily weight gain (ADG) or growth rate. **Protein** increased profitability Production and Cost • Meat quality: marbling score, tenderness, color, etc. Maintain or improve quality attributes of animal **Efficiency** Quality • Milk quality: Fat & protein content, somatic cell count products to meet market demands • Egg quality: shell strength and thickness, shell color Reduce feed costs through enhanced feed • Feed conversion ratio (FCR) – feed required per unit of weight gain Feed costs / efficiency efficiency and utilization • Production costs per unit of output Feed intake levels Increase feed consumption by enhancing appetite **Feed intake** • Feed wastage or spoilage rates stimulation and palatability • Animal preference and acceptance of food Support optimal reproductive performance and • Reproductive efficiency indicators (e.g., fertility rates) Reproduction **Animal** fertility in breeding animals • Postpartum recovery and lactation performance of breeding animals Robustness – Nutrition Promote animal survivability through proper Optimization **Survivability** • Fetal and neonatal health outcomes (e.g., birth weights, survival rates) management

Maximize nutrient absorption and utilization from

feed for improved health and performance

Need state definitions

Gut integrity

Stress

1.2

Pillar

Animal Robustness – Nutrition Optimization

Animal

Disease

Robustness -

Prevention &

Management

Need

Customer Objective

Promote gut integrity to maximize nutrient utilization

Mitigate effects of environmental stressors on

animal health and welfare

Preventing disease outbreaks

Manage pests, parasites, and vectors to minimize **Pest control** disease risks to animals

Mycotoxin risk management

Mitigate risk of mycotoxin contamination in feed through testing and management practices

Minimize pollution and greenhouse gas emissions from animal production systems

antibiotics, through preventive health measures

Example Metrics Tracked to Show Progress

- Gut integrity indicators (e.g., intestinal morphology, microbial diversity)
- Occurrence of digestive disorders or digestive-related illnesses
- Behavioral indicators of stress (e.g., stereotypic behaviors, vocalizations)
- Physiological stress markers (e.g., cortisol levels, heart rate variability)
- Incidence of diseases or health issues (e.g., respiratory infections, digestive disorders).
- Mortality rates or culling rates due to health-related issues
- Efficacy of pest control measures.
- Incidence of pest infestation and disease transmission
- RToxin-levels in animal fluids or tissues
- Toxin contamination levels in feed

Sustainability

Pollution/ Emissions

Demedication

Promoting health &

natural defences

Reduce reliance on medications, particularly

• Greenhouse gas emissions (e.g., methane, nitrous oxide) per unit of product

• Waste management metrics (e.g., nutrient excretion, manure management practices)

• Reduction in antibiotic usage or veterinary interventions due to improved immune function

Instructions

1
Select species

Ruminant

2 Select need

Yield

3

Press go



Close

- Species

Protein Efficiency

Qua

Feed cost / efficiency

Feed Intake

Animal Robustness and Welfare

Reproduction

Survivability

Nutrition absorption

Gut integrity

Stress

Promoting health & natural defences

Pest control

Mycotoxin risk management

Sustainability and Environment

Pollution and emissions

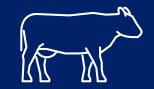
Demedication

Protein Efficiency

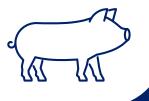
Feed cost , efficiency

Species

Ruminant



Swine



Poultry

Aqua



Animal Robustness and Welfare

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Survivabilit

Stress

Pest control

Sustainability and Environment —

Pollution and emissions

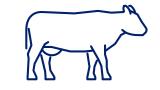
Demedication

Protein Efficiency

Feed cost , efficiency

Species

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Swine



Poultry

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Animal Robustness and Welfare

roduction

Survivability

Pest contro

Sustainability and Environment —

Pollution and emissions

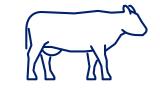
Protein Efficiency

Feed cost / efficiency

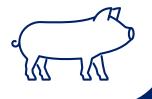
Feed Intake

Species

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Poultry



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Animal Robustness and Welfare

oduction

Survivability

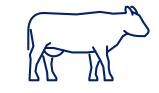
Pest contro

Sustainability and Environment

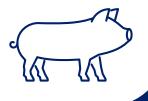
Pollution and emissions

Species

Ruminant



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Poultry



Aqua



Protein Efficiency

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Feed cost / efficiency

Feed Intake

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Survivabilit

Gut integrity

Stress

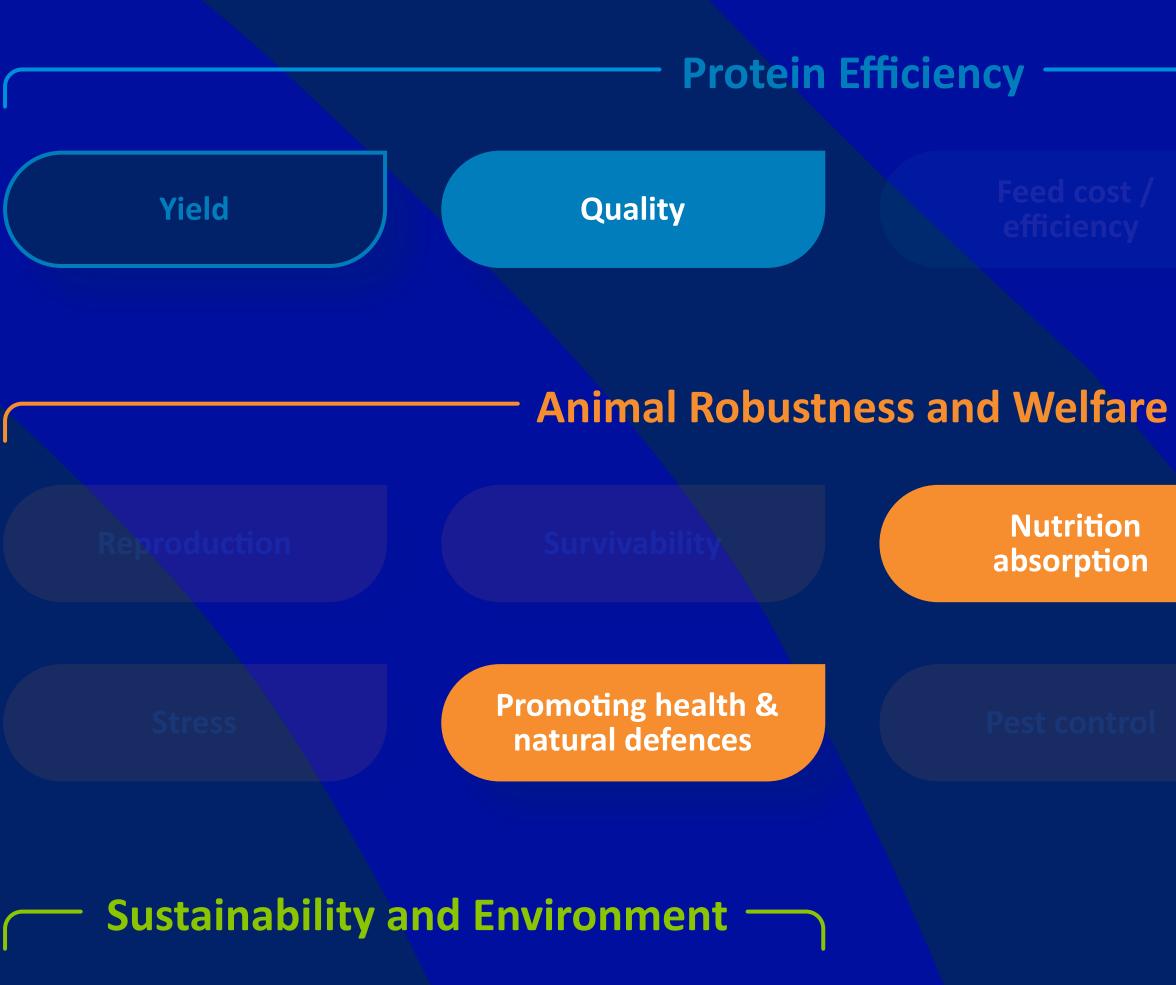
Pest contro

Mycotoxin risk management

Sustainability and Environment

Pollution and emissions

Species Ruminant **Swine Poultry** 80 Aqua

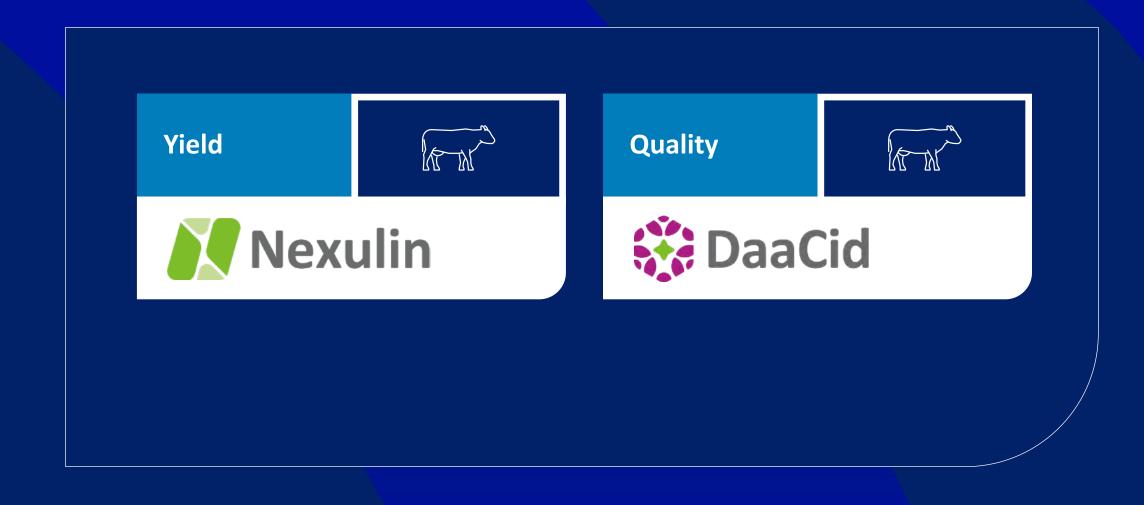




Nutrition

Feed Intake

Gut integrity



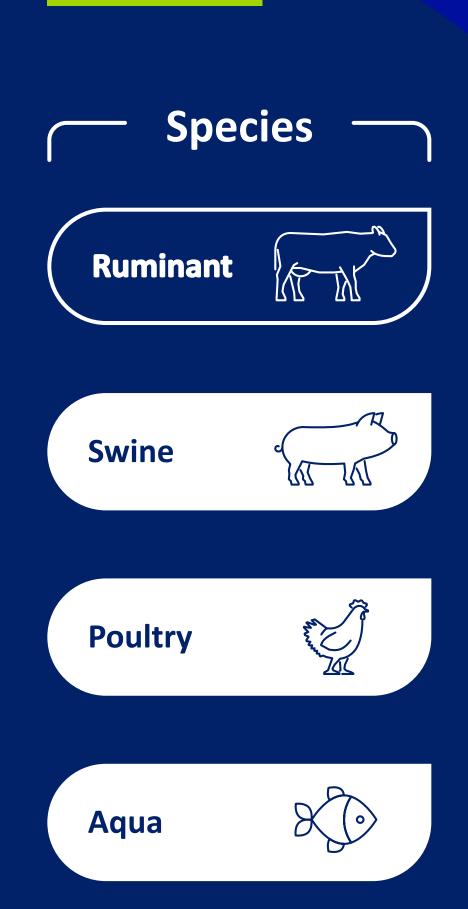
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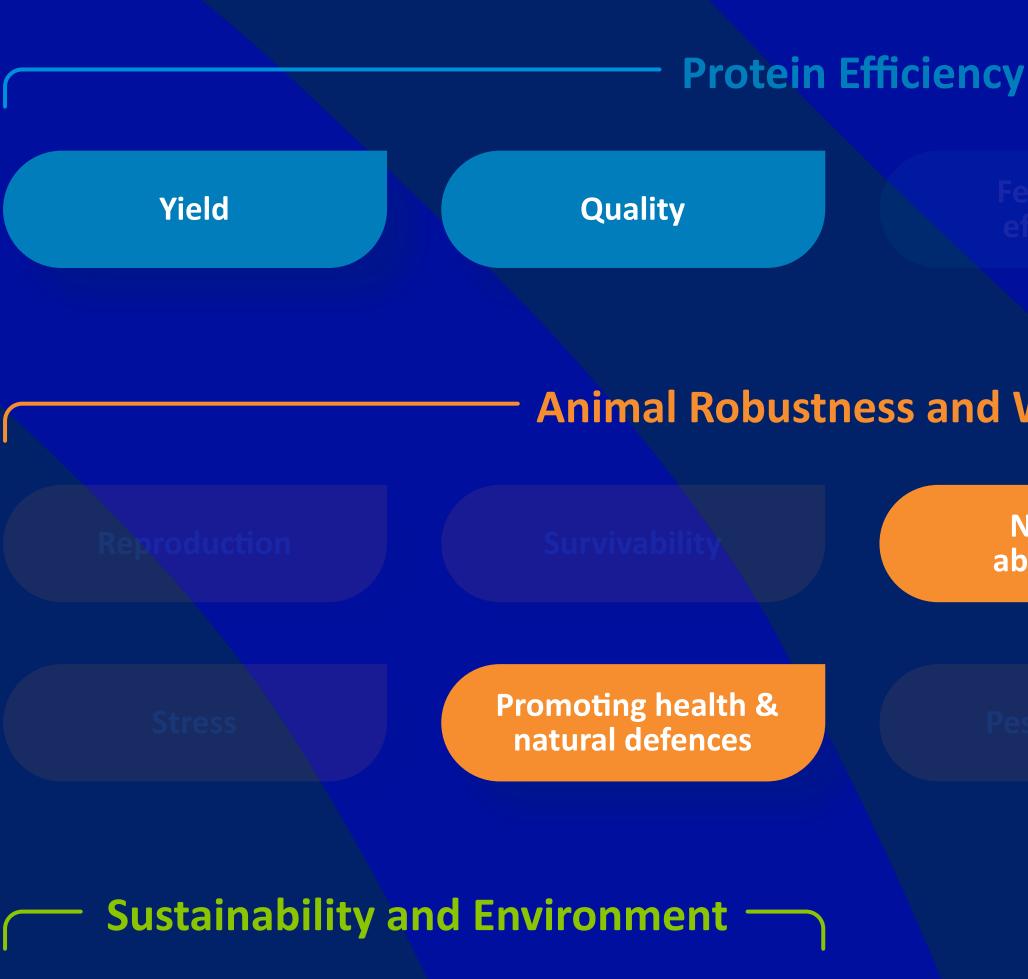


Yield Quality **Feed Intake Animal Robustness and Welfare Nutrition Gut integrity** absorption **Promoting health & Mycotoxin risk** natural defences management

Sustainability and Environment —

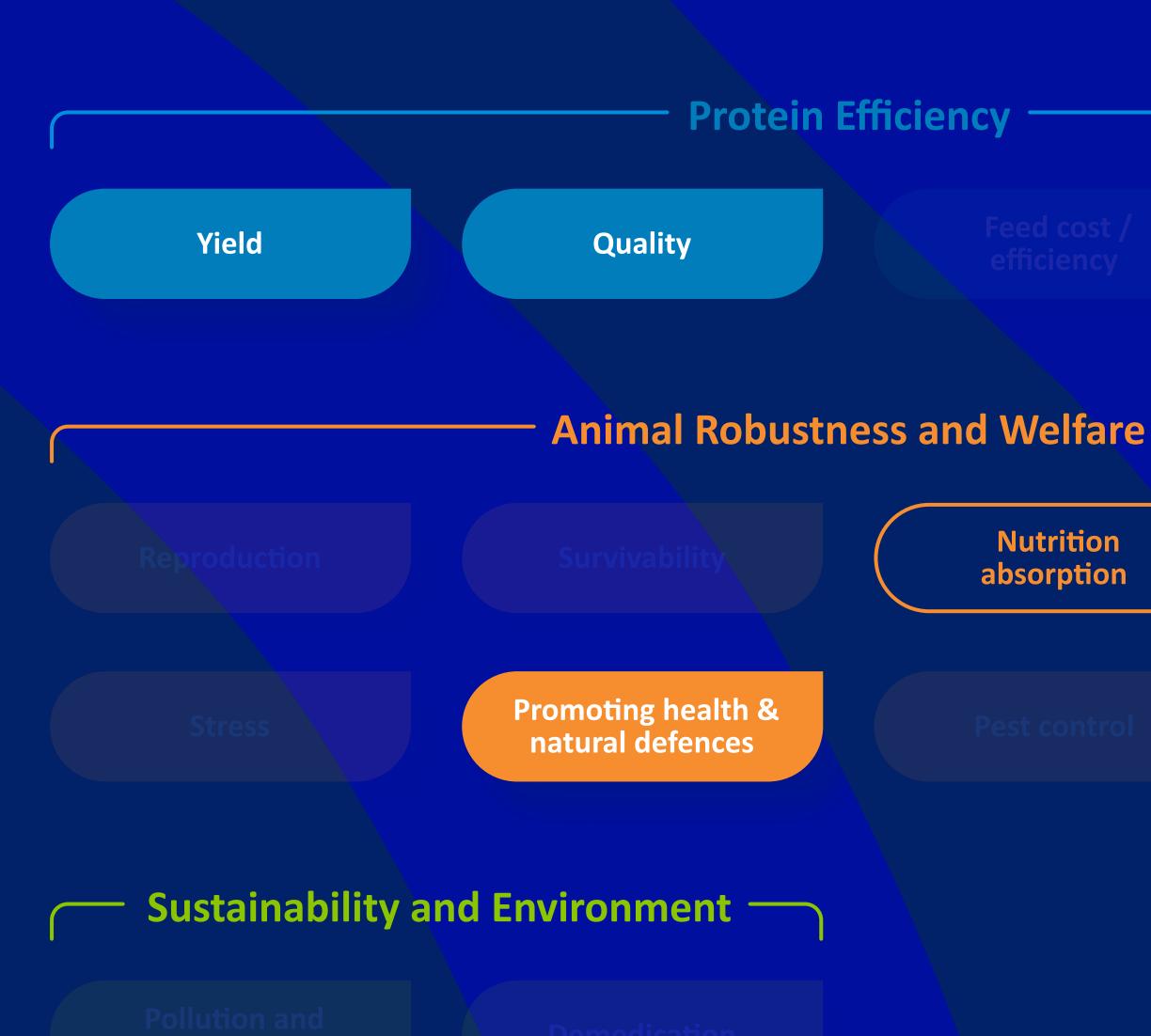








Species Ruminant **Swine Poultry** 80 Aqua

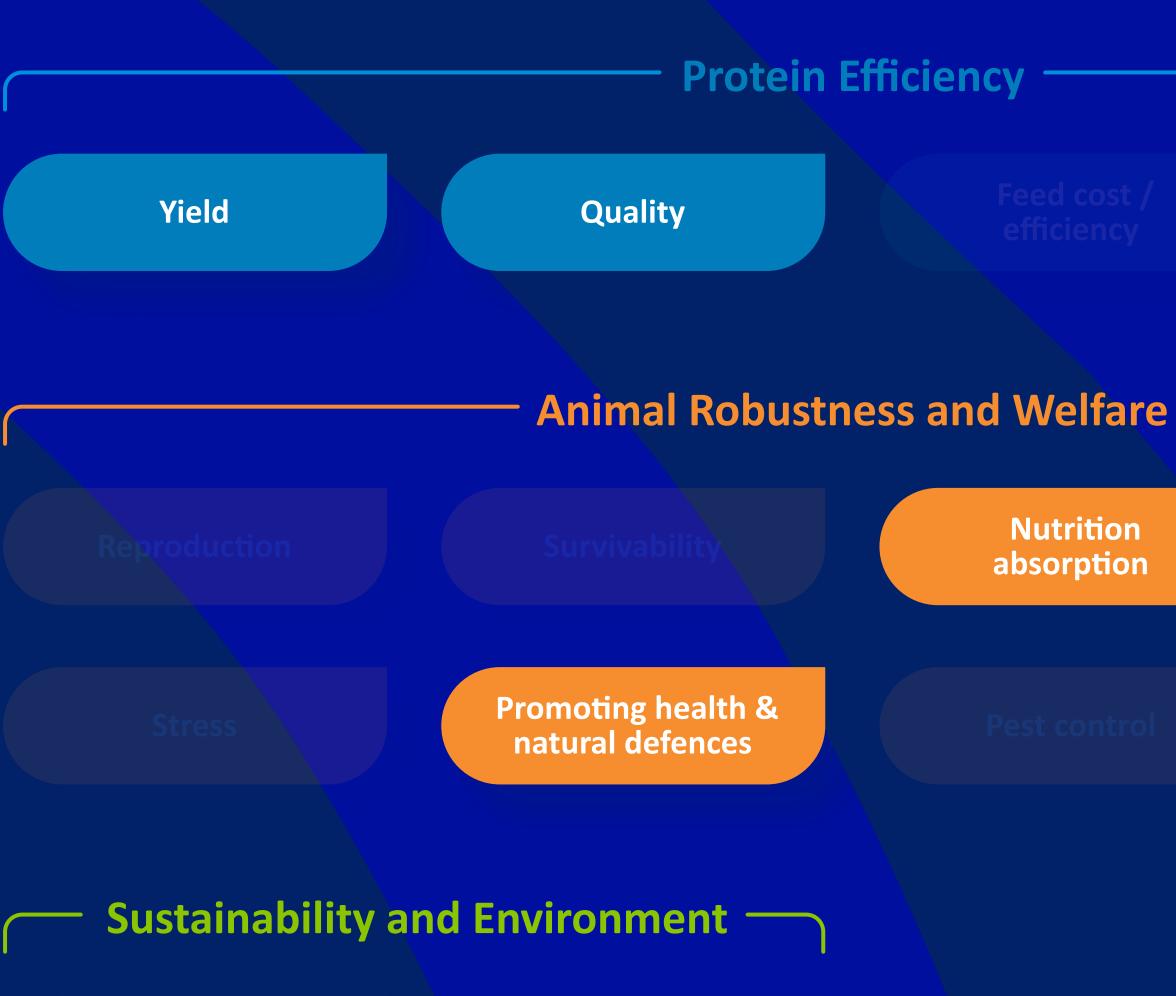


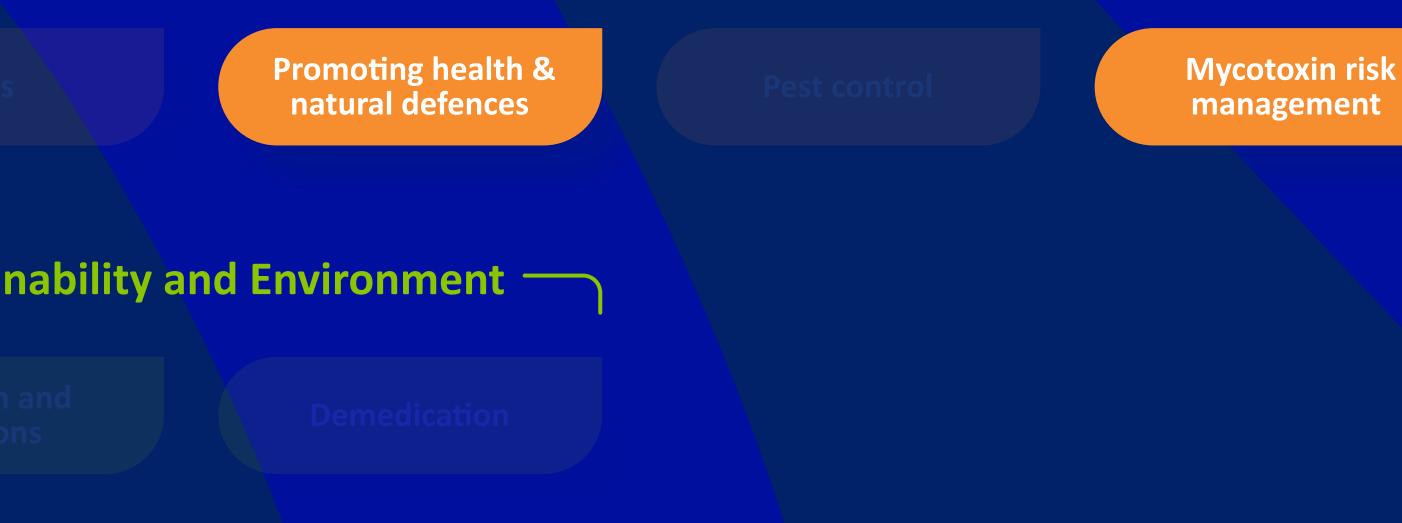
Feed Intake

Gut integrity

Mycotoxin risk

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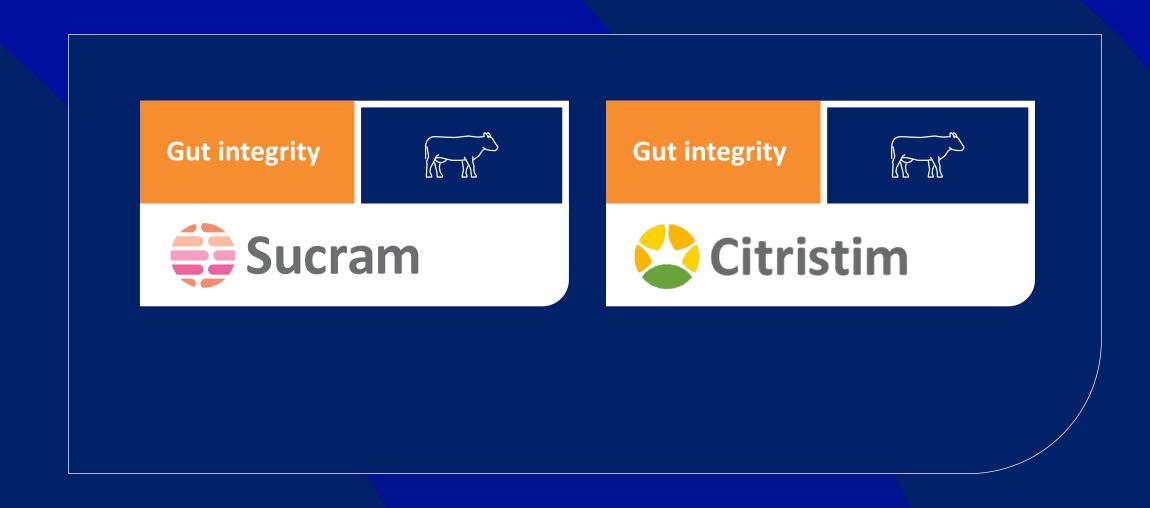




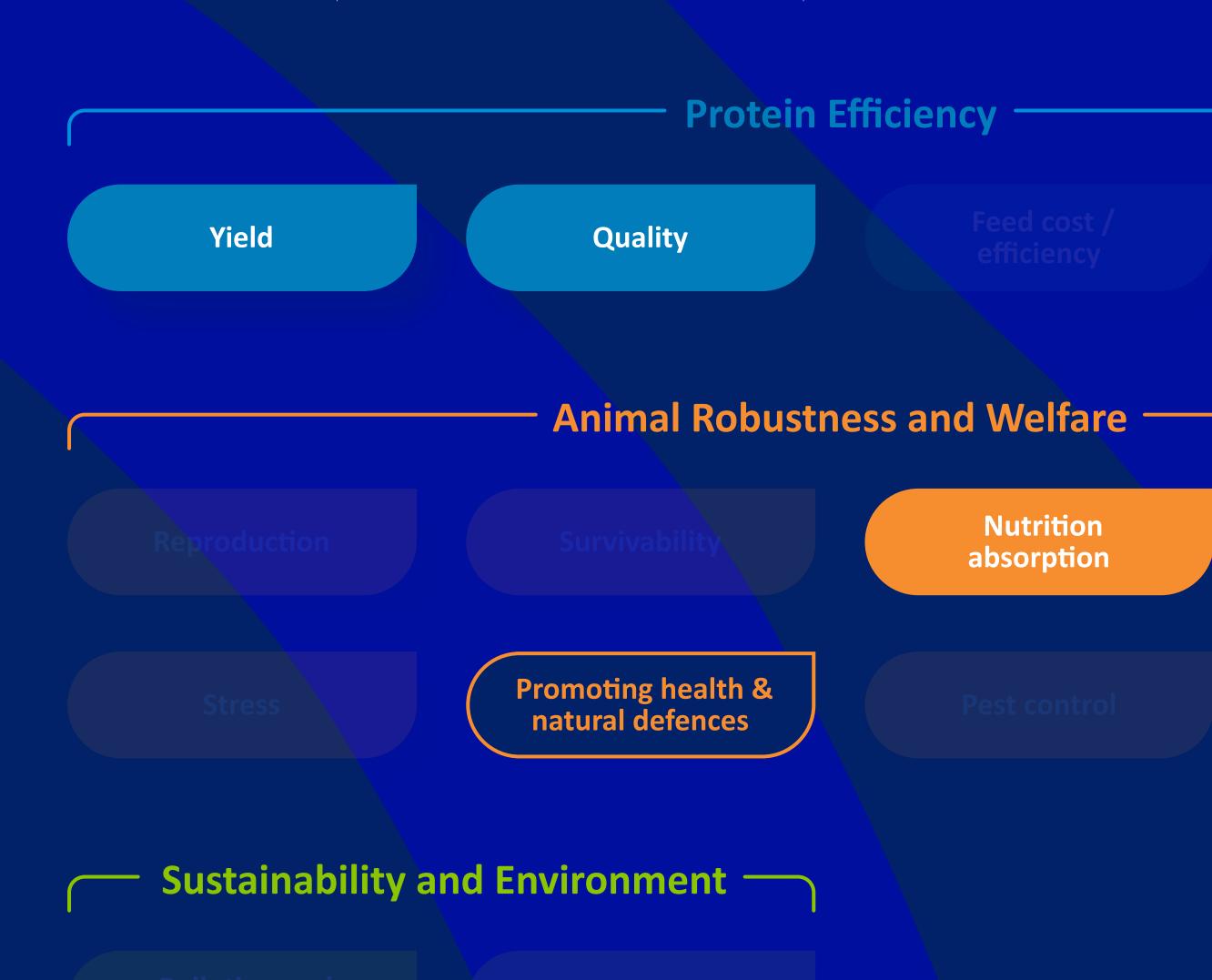
Nutrition

Feed Intake

Gut integrity



Species Ruminant **Swine Poultry** 80 Aqua



Feed Intake

Gut integrity

Mycotoxin risk



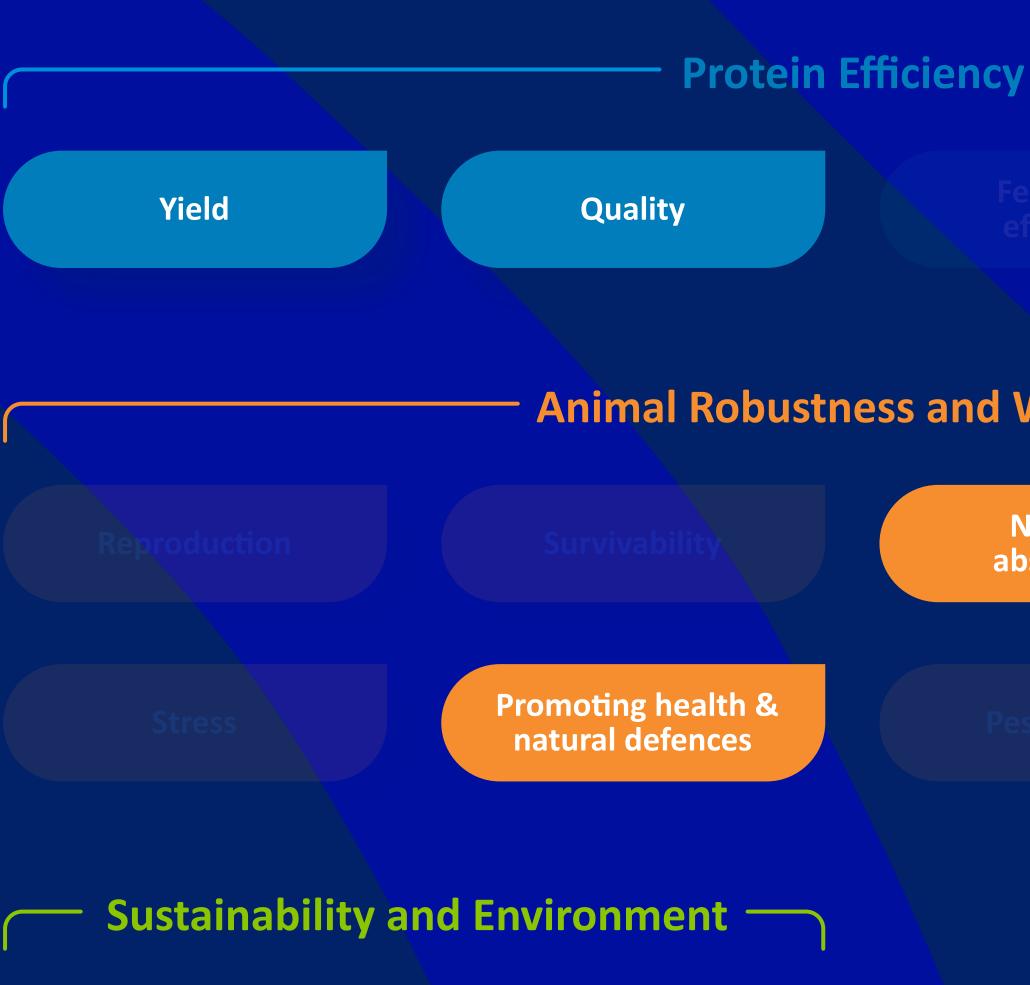






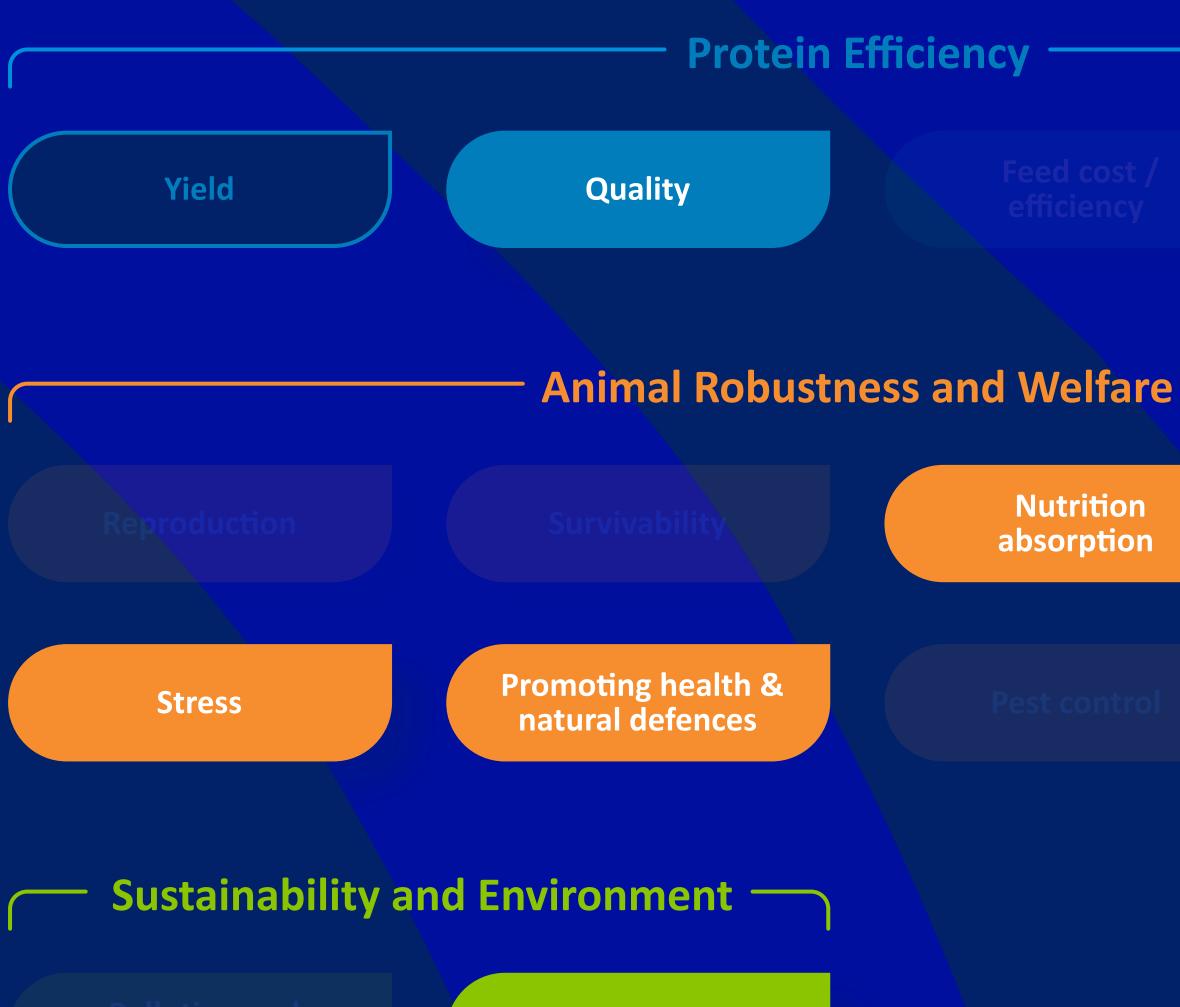


Species Ruminant **Swine Poultry** 80 Aqua



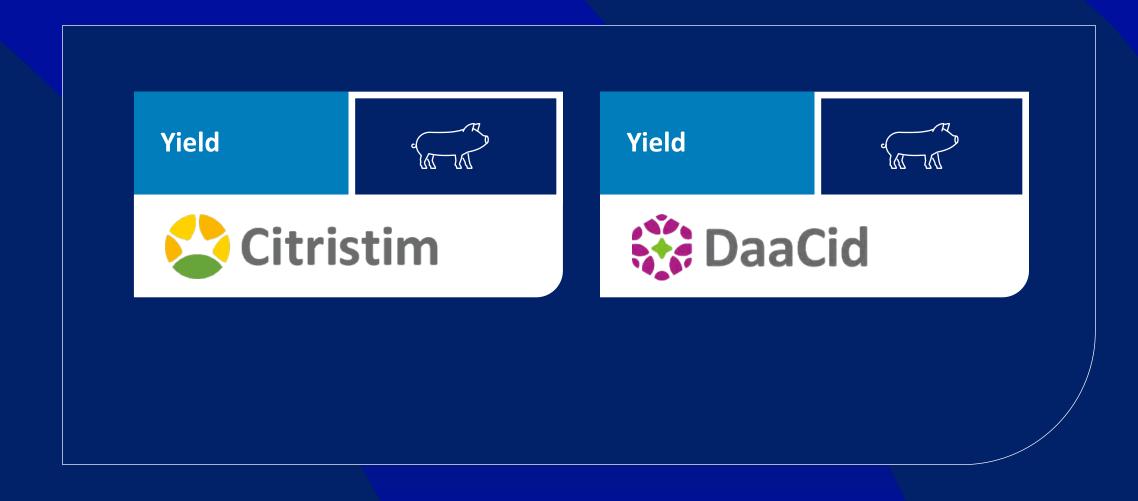


Species Ruminant Swine MIN **Poultry** 80 Aqua

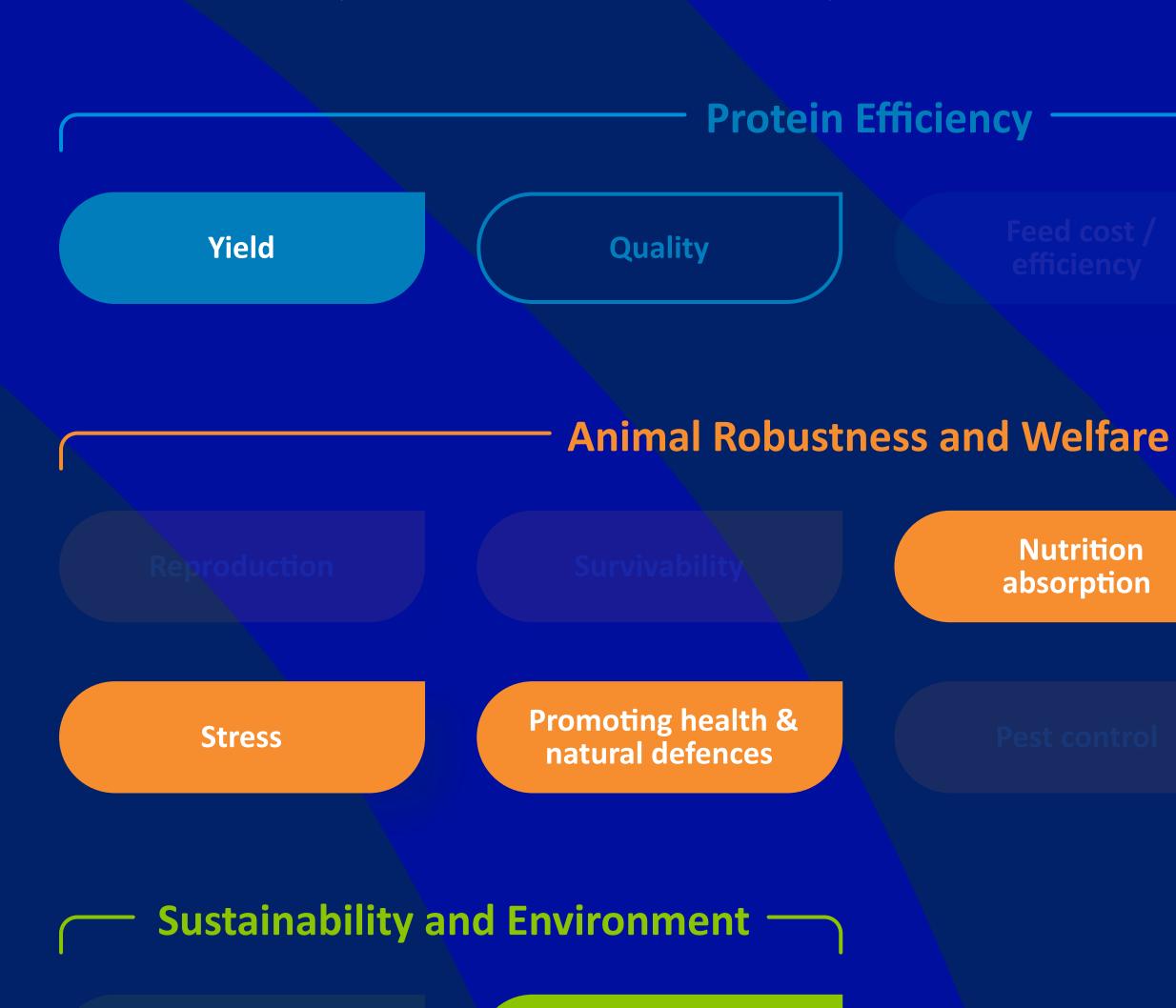


Demedication





Species Ruminant Swine MIN **Poultry** 80 Aqua



Demedication

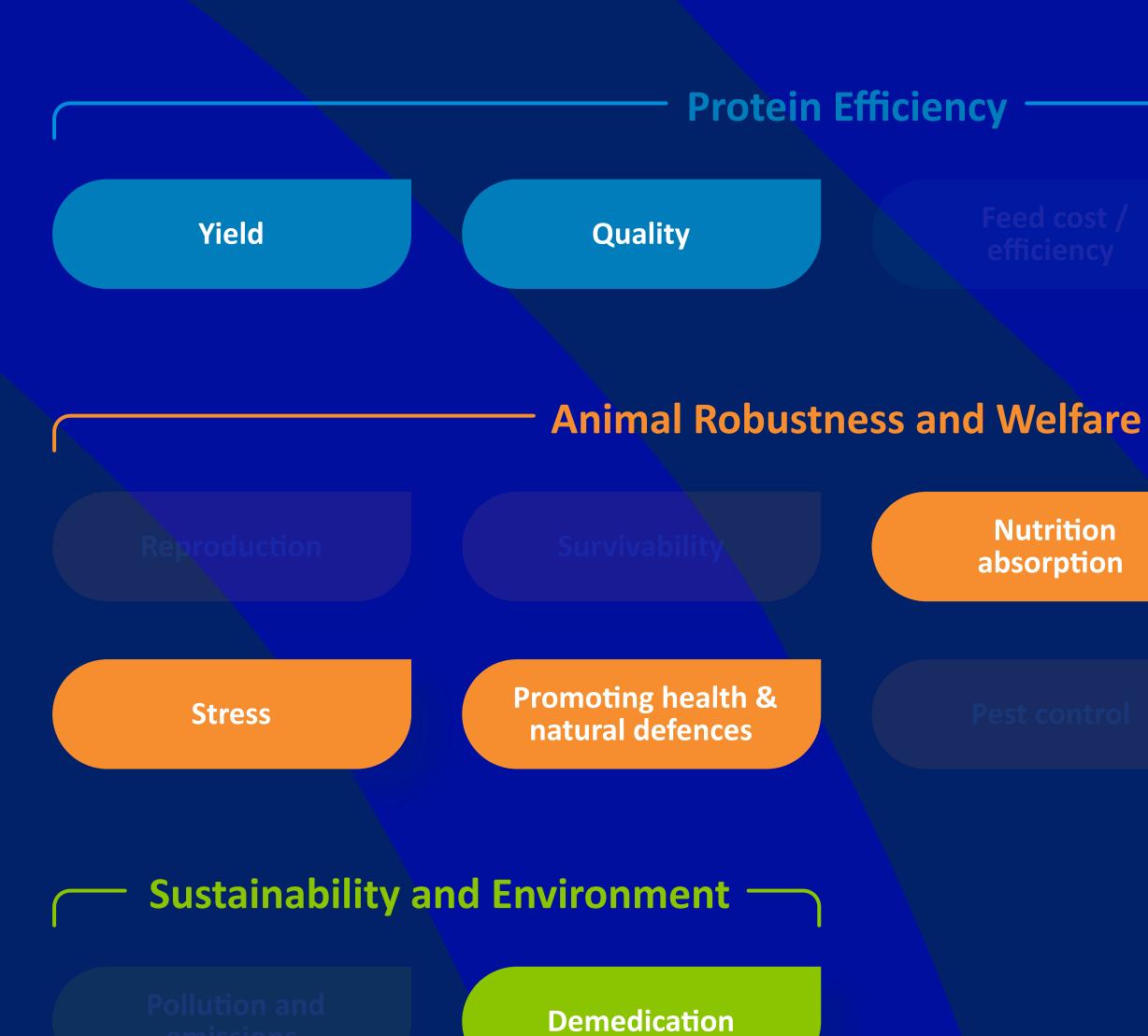
Feed Intake

Gut integrity

Mycotoxin risk



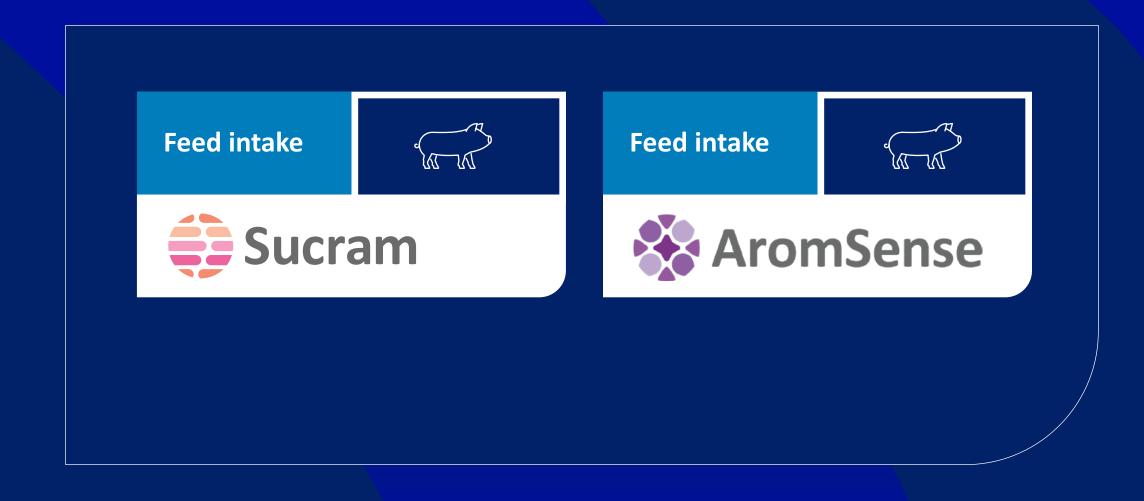
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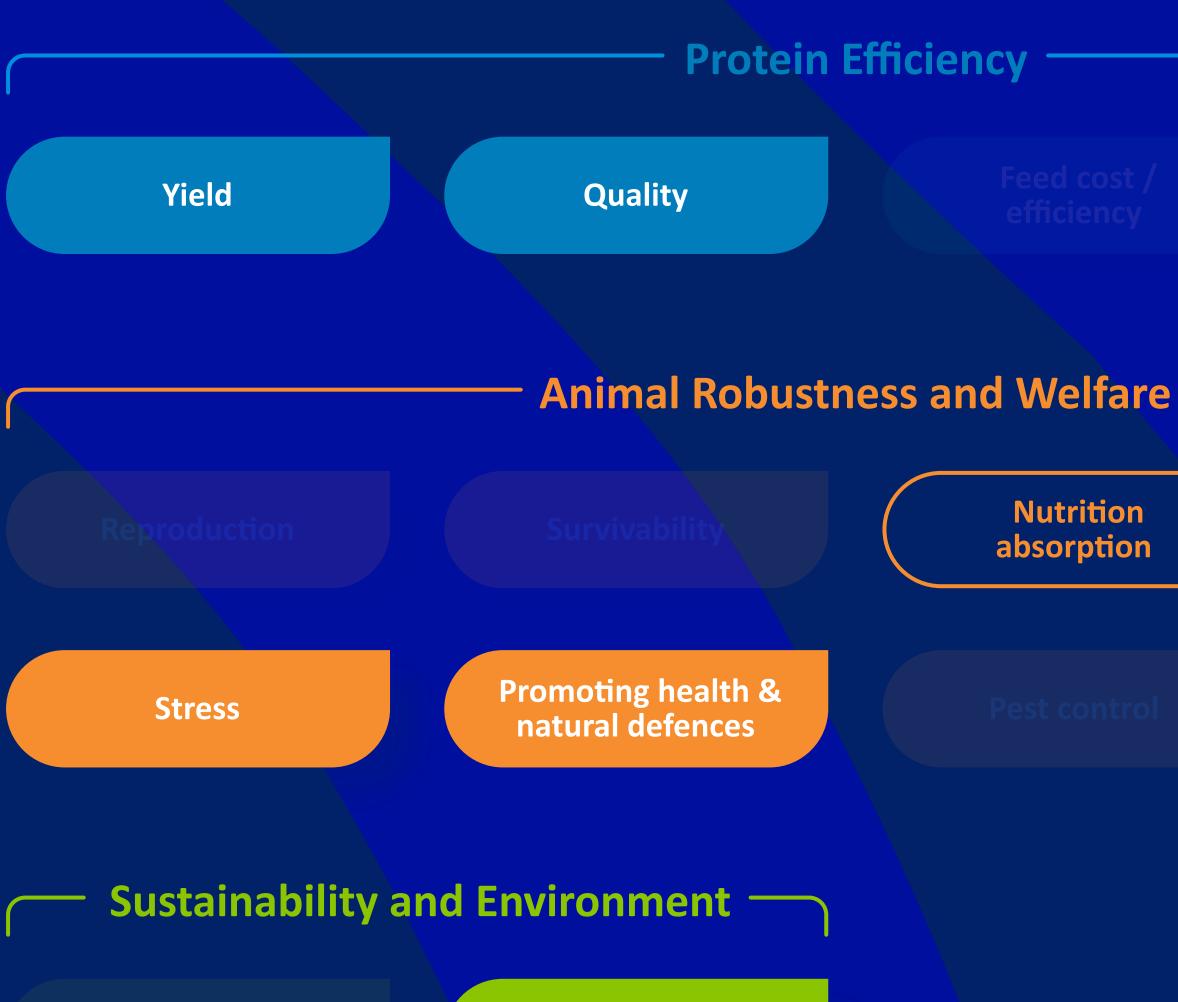
Feed Intake

Gut integrity

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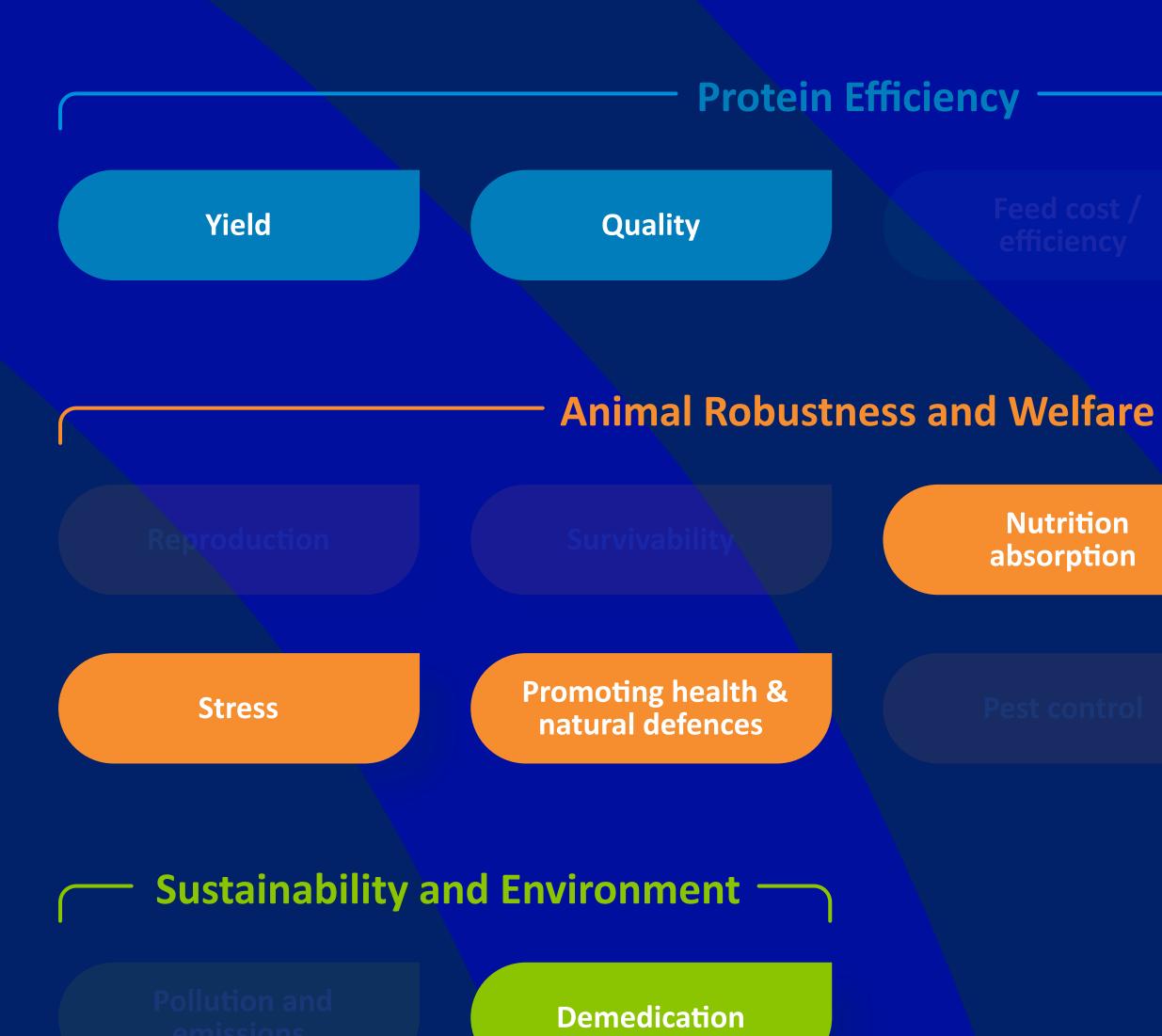
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Demedication



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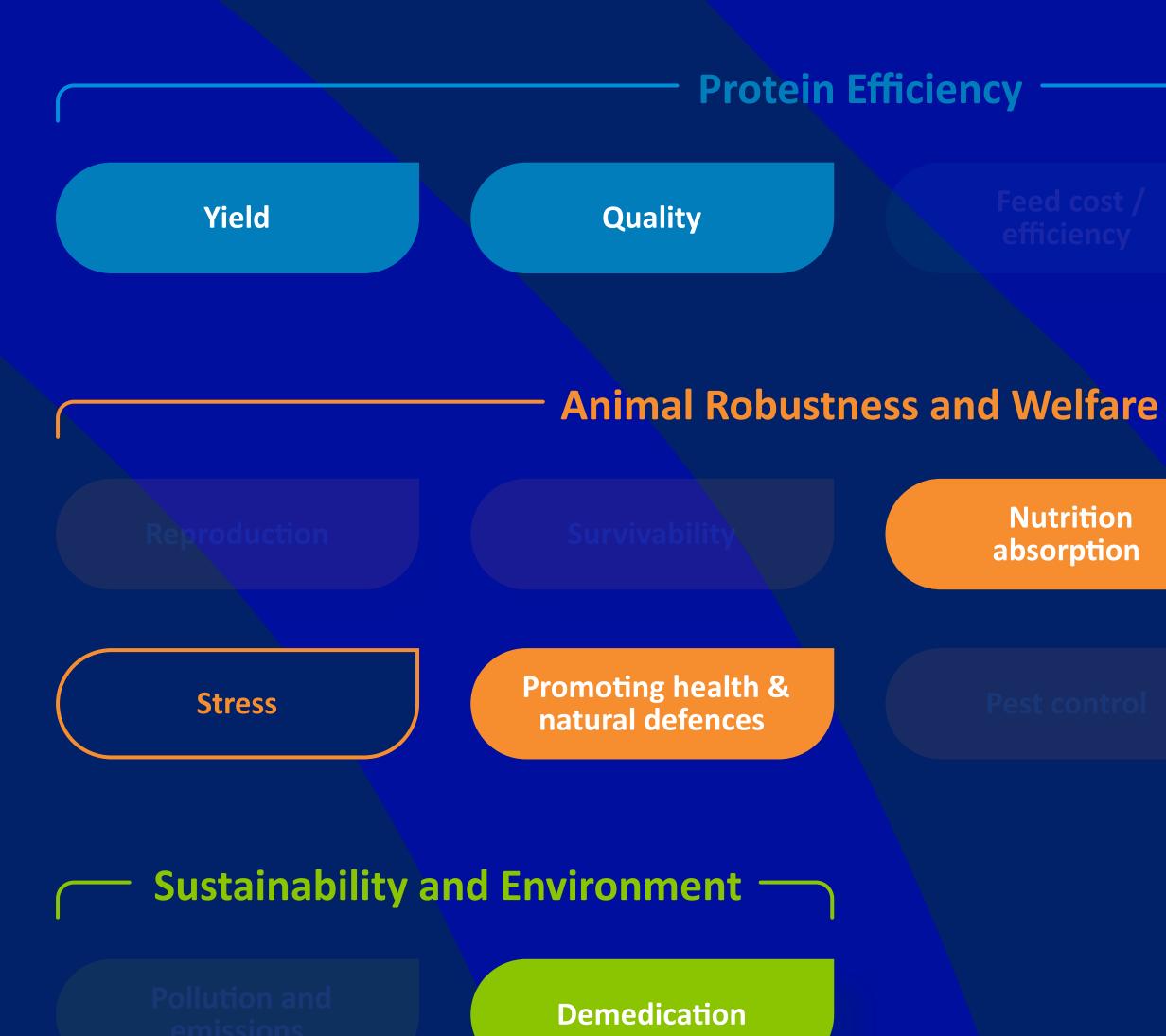
Feed Intake

Gut integrity

Mycotoxin risk



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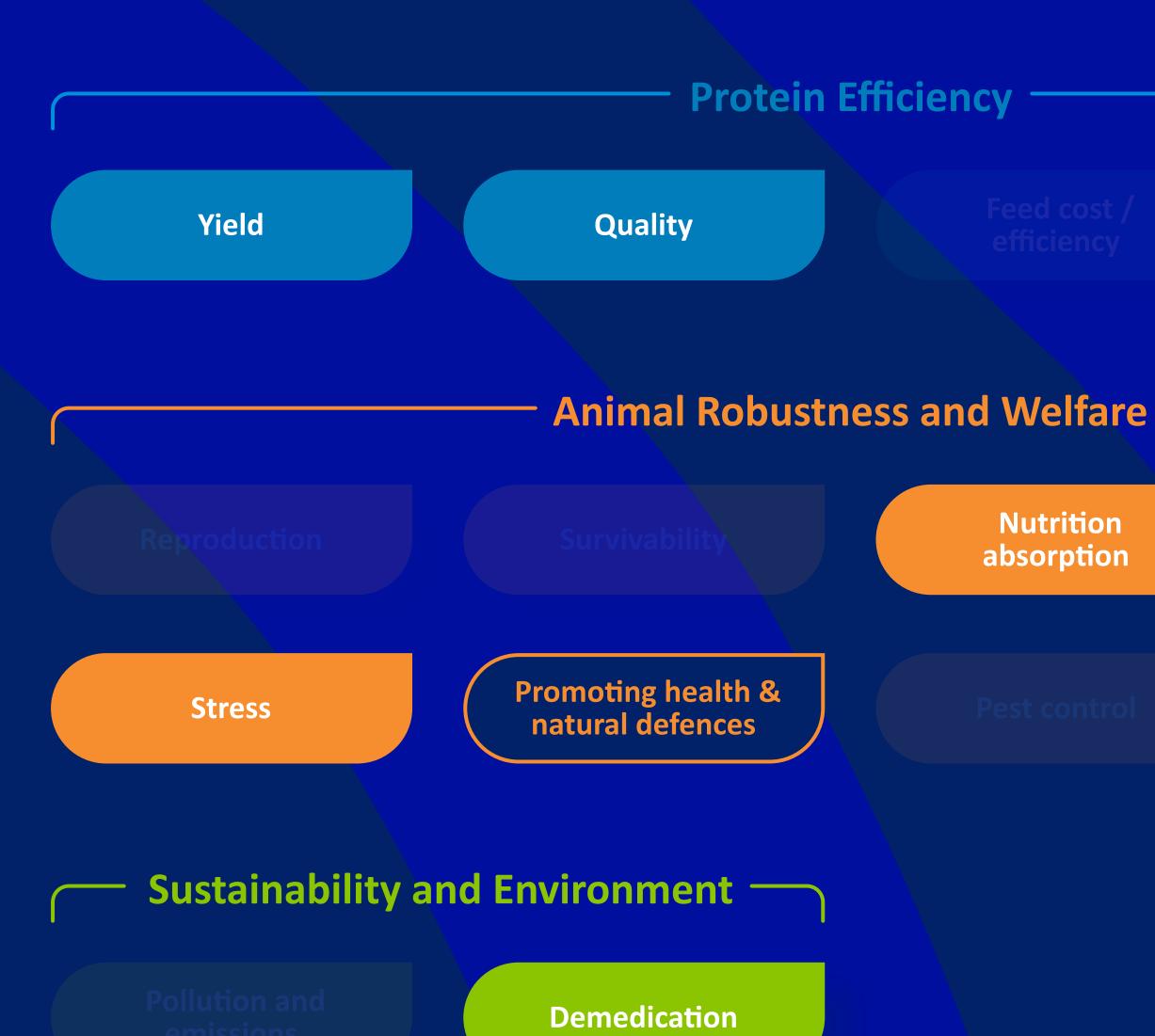


Feed Intake

Gut integrity

Mycotoxin risk

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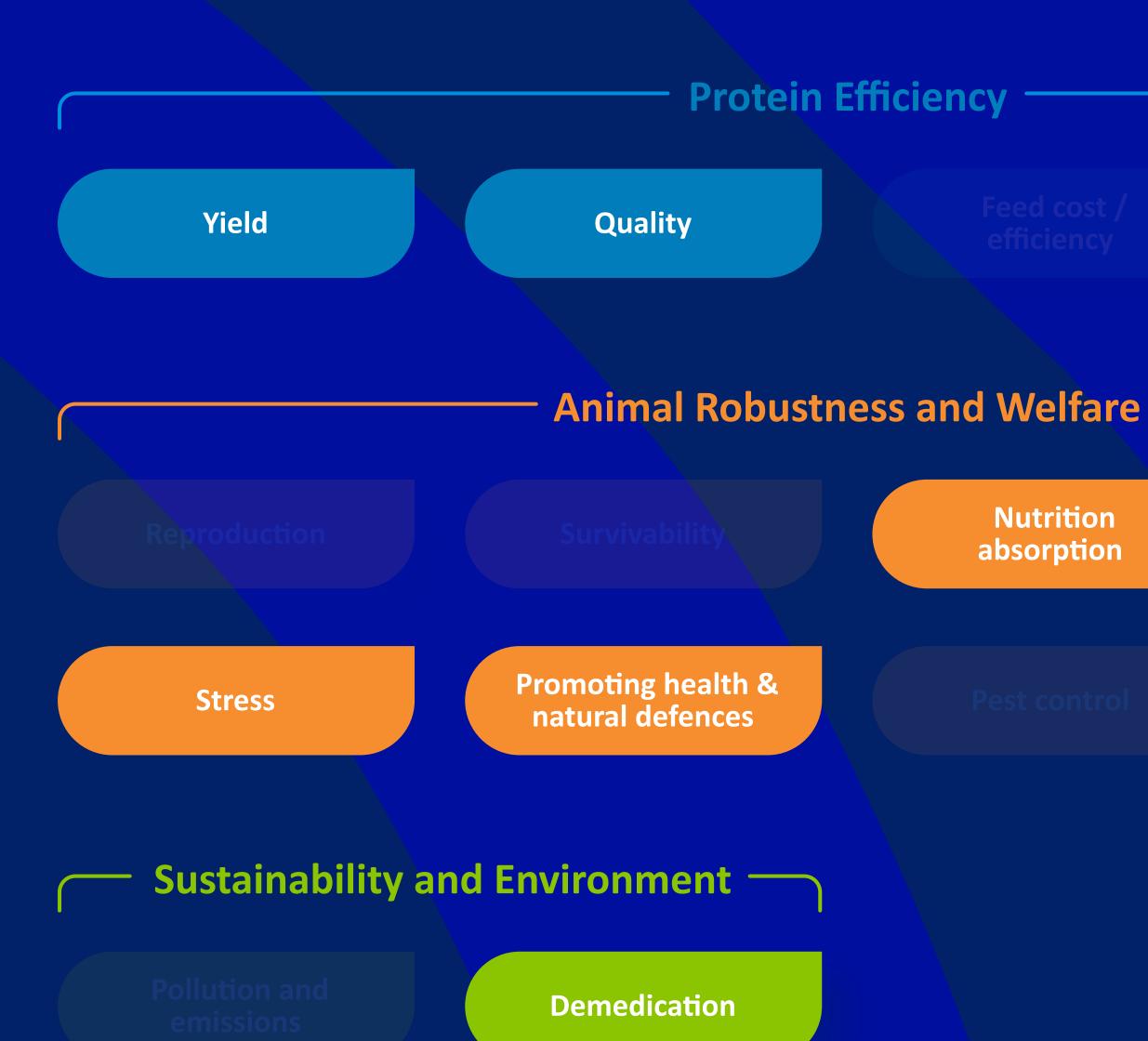
Feed Intake

Gut integrity

Mycotoxin risk



Species Ruminant Swine MIN **Poultry** 80 Aqua



Feed Intake

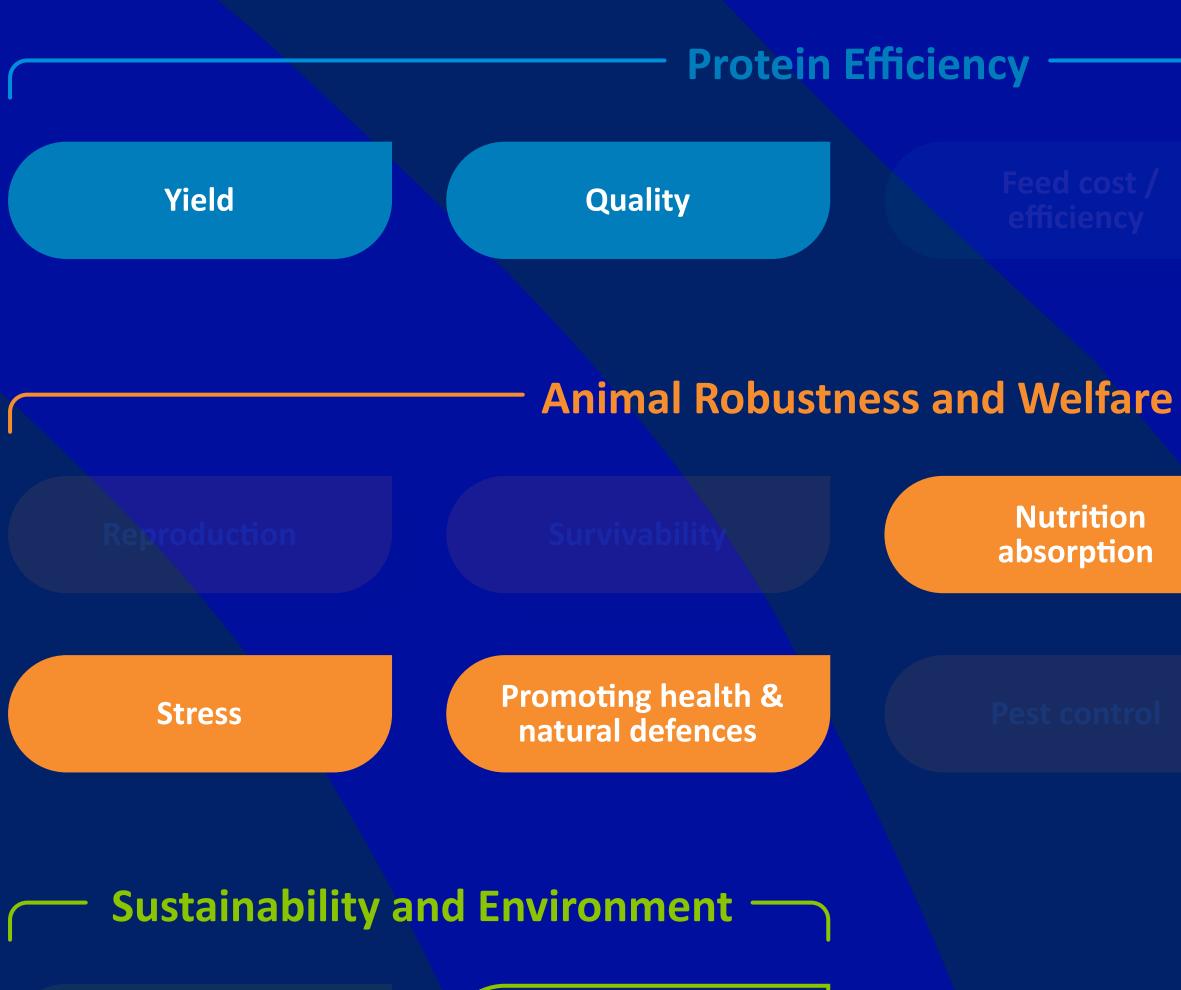
Gut integrity

Mycotoxin risk

management

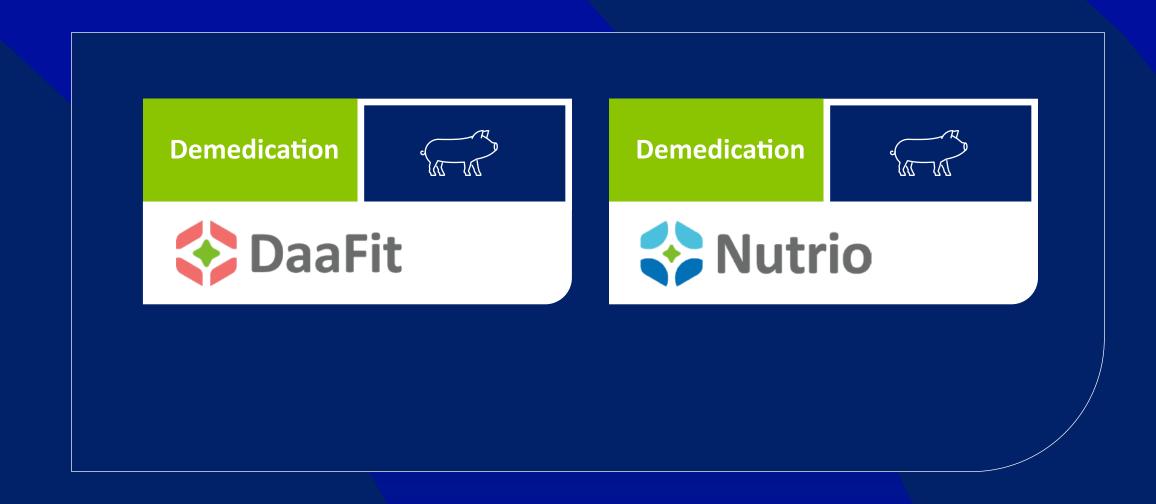


Species Ruminant Swine MIN **Poultry** 80 Aqua



Demedication

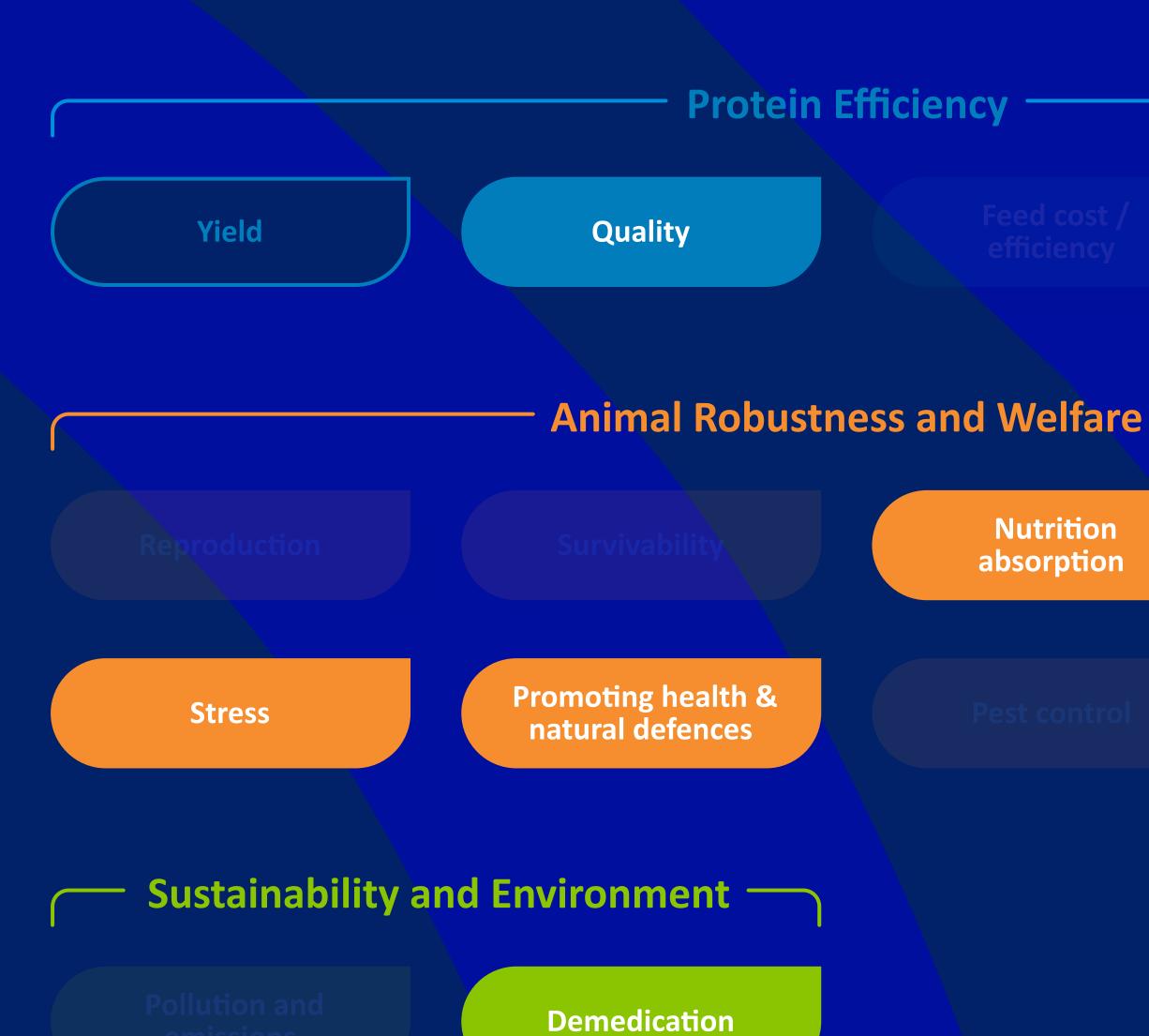




Ruminant
Swine
Poultry

Aqua

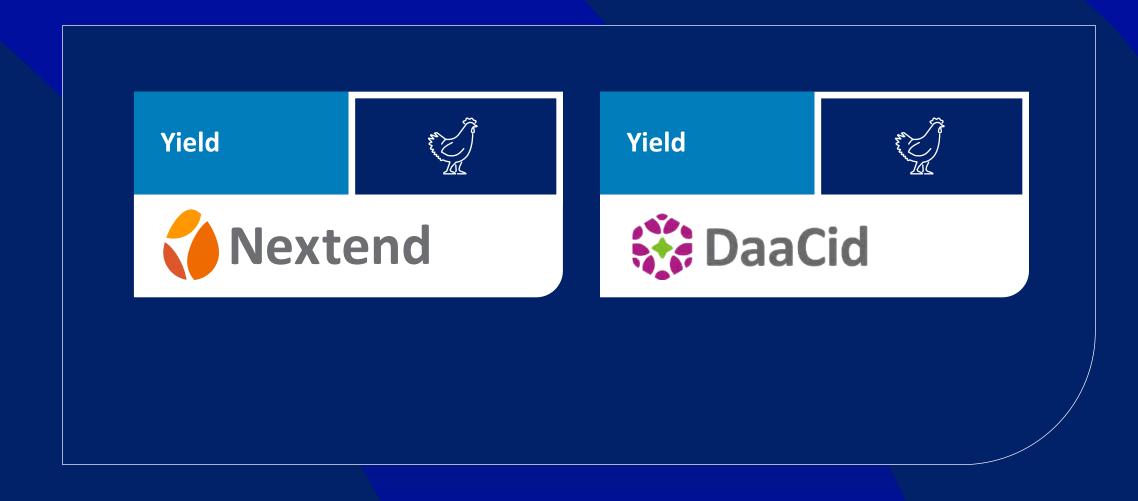
80



Gut integrity

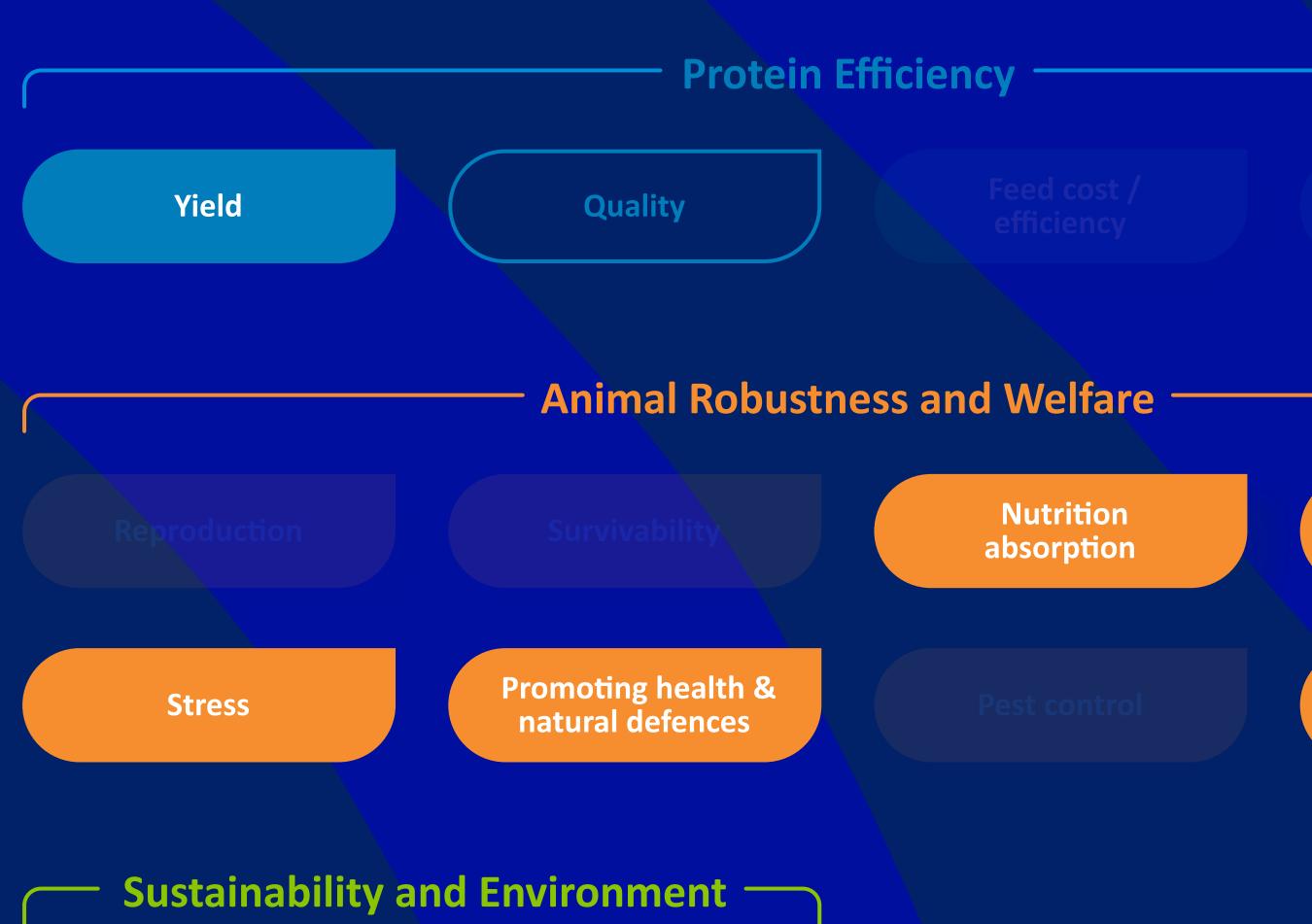
Mycotoxin risk

management



Ruminant
Swine





Gut integrity

Mycotoxin risk

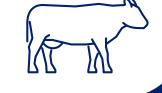
management



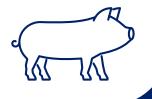


- Species

Ruminant



Swine



Poultry



Aqua





Yield

Quality

Feed cost / efficiency

Feed Intake

Animal Robustness and Welfare

Reproduction

Survivability

Nutrition absorption

Gut integrity

Stress

Promoting health & natural defences

Pest control

Mycotoxin risk management

Sustainability and Environment —

Pollution and emissions

Demedication

Species

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Protein Efficiency

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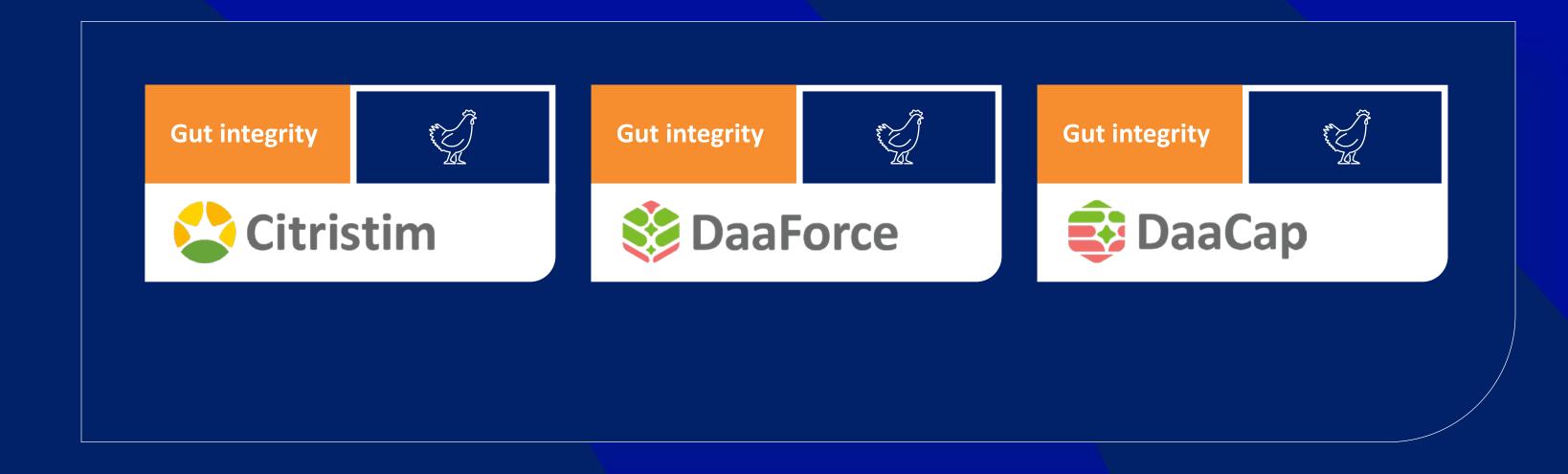
Pest contro

Mycotoxin risk management

Sustainability and Environment —

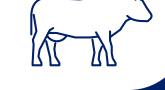
Pollution and emissions

Demedication

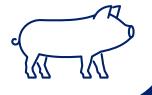


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Aqua





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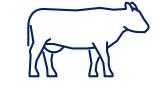
Sustainability and Environment —

Pollution and emissions

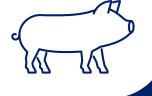
Demedication

— Species

Ruminant



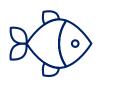
Swine



Poultry



Aqua





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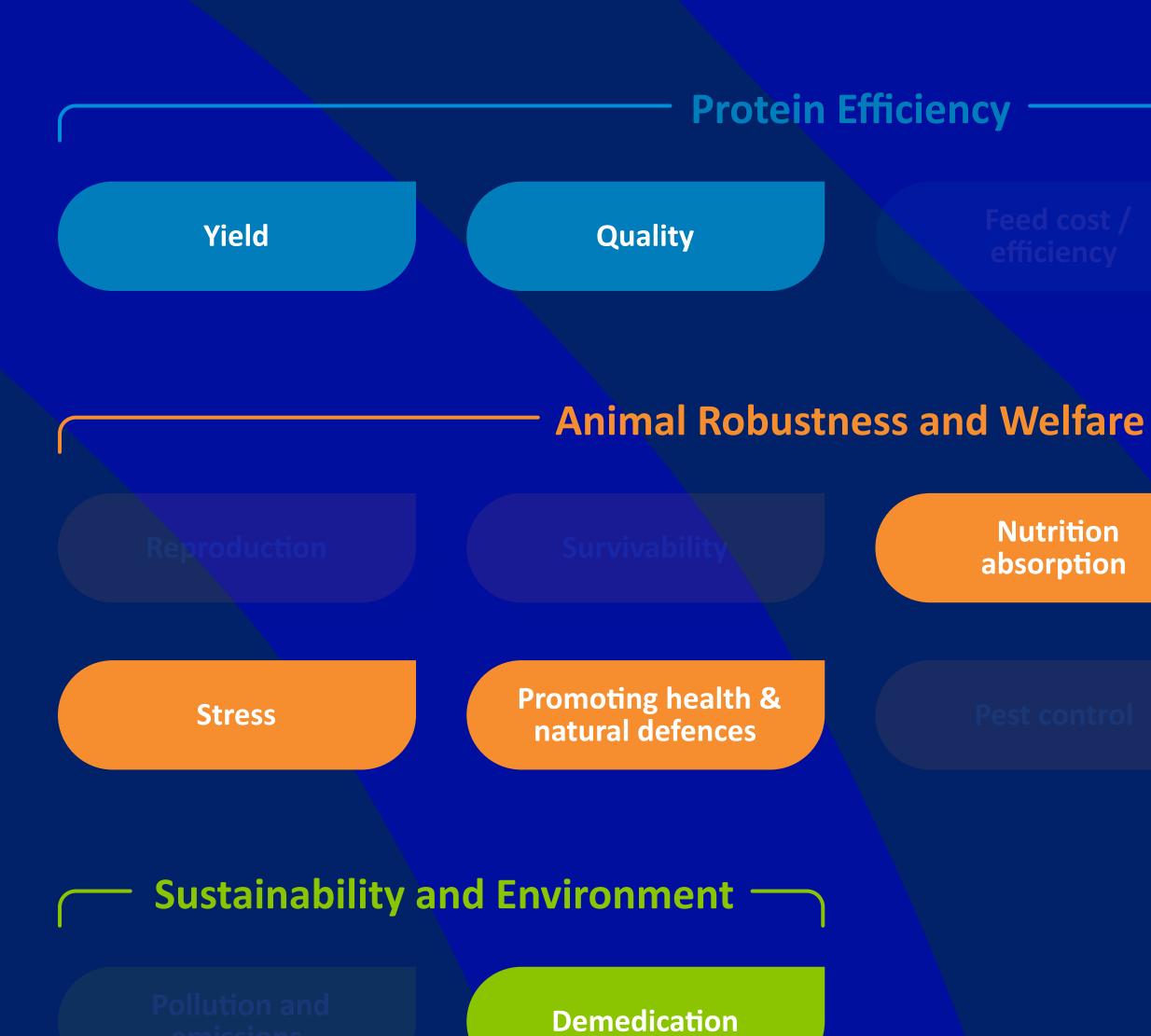
Sustainability and Environment -

Pollution and emissions

Demedication



Species Ruminant **Swine** 10 J Poultry 80 Aqua



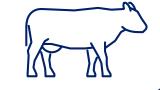
Gut integrity

Mycotoxin risk

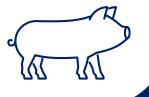
management

— Species

Ruminant



Swine



Poultry



Aqua





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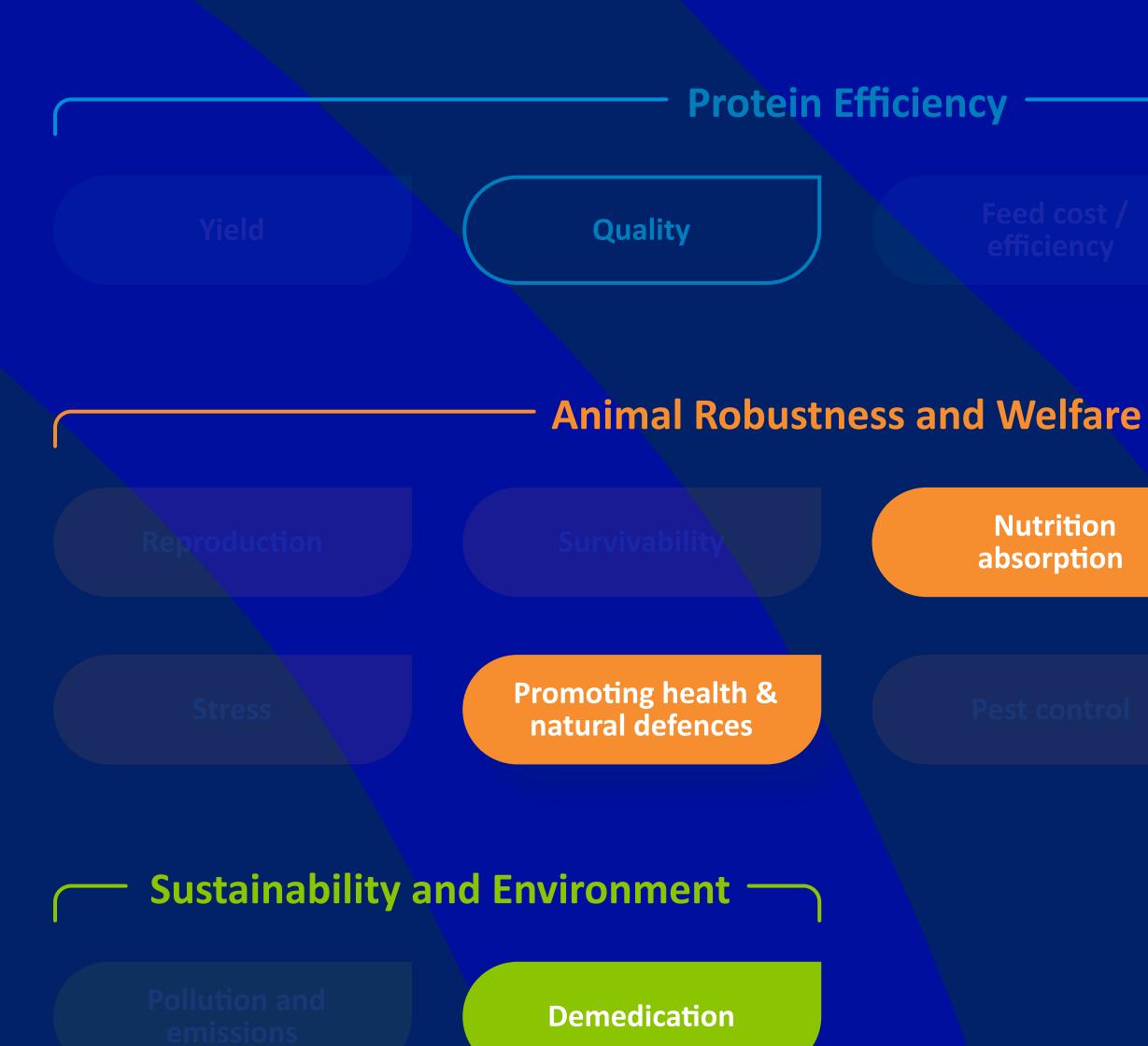
Mycotoxin risk management

Sustainability and Environment —

Pollution and emissions

Demedication

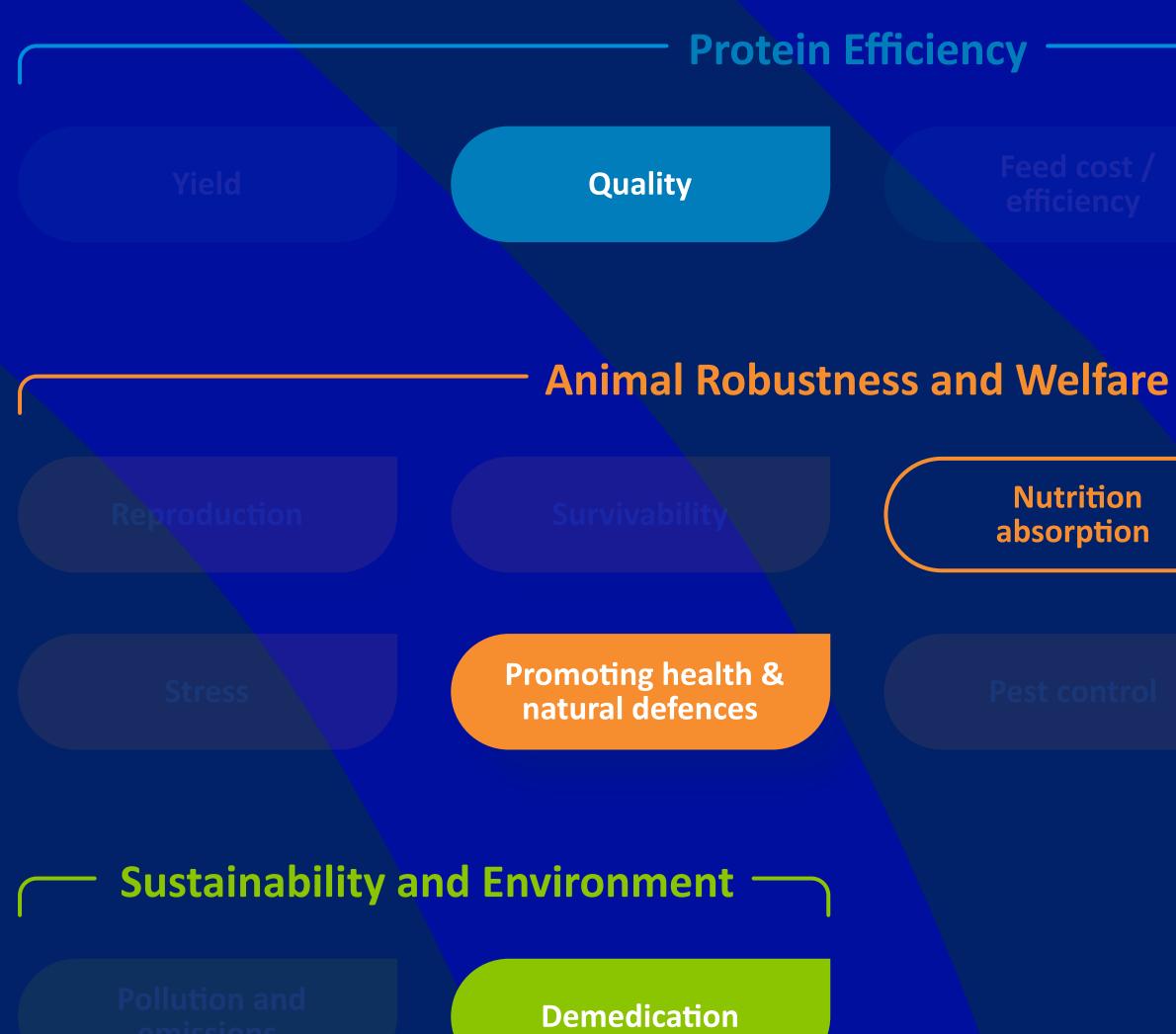
Species **Ruminant Swine Poultry** 80 Aqua



Species **Ruminant Swine Poultry**

Aqua

80





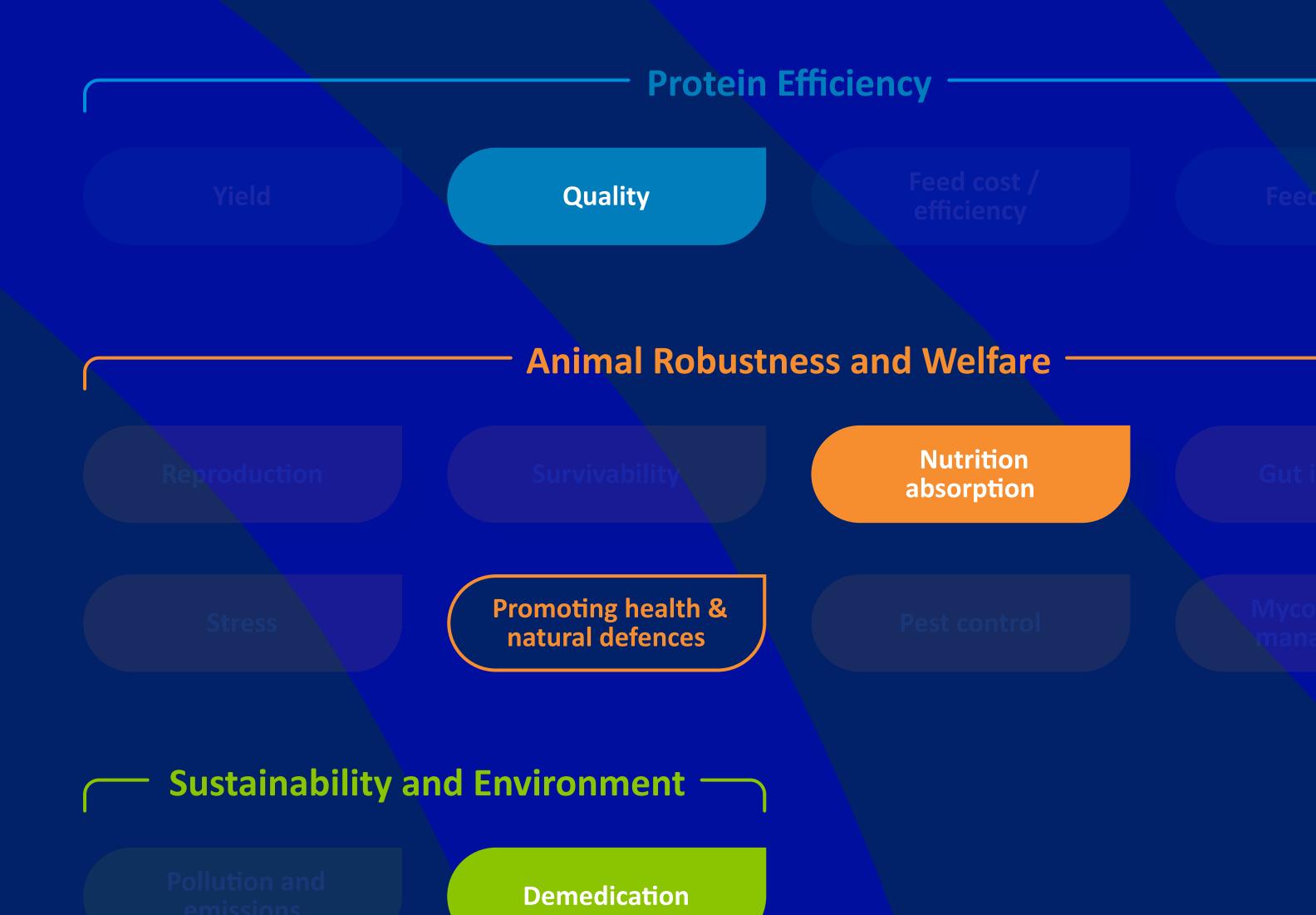
Species

Ruminant

Swine

Poultry







— Species

Ruminant



Swine



Poultry



Aqua 800

Protein Efficiency

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Sustainability and Environment —

Pollution and emissions

Demedication

Feed intake



Gut integrity







Sucram is a range of high intensity sweeteners with potentiators and enhancers that have been specifically formulated to target an animal's sweet taste receptors and activate them, thereby stimulating feed intake.

Benefits

- **Promotes gut health and digestive efficiency**

Palatants/Sweeteners ()



- Saccharin Free (Sucram Mi-Sweet & Sucram Specifeek)
- Contains Monk Fruit (Sucram Mi-Sweet)
- Hundreds of times sweeter than sucrose
- Effective taste masking qualities
- Unique Iso-Fusion technology
- Formulated to provide accurate dosage and release

Feed intake



Gut integrity







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Feed intake







AromSense is a range of feed additives formulated to improve the olfactory quality (the smell) of feed. Aromatic molecules are combined to stimulate the olfactory receptors in the animal's nose.

Benefits

Increases feed consumption by enhancing appetite stimulation and palatability

Palatants/Flavors ()



- Contains aromatic substances with attractive olfactory properties
- Versatile and comprehensive portfolio of flavours
- Pioneering product within the flavor category
- Based upon more than 75 years of experience and research

Feed intake



Gut integrity





Magnasweet combines a high intensity sweetener with sophisticated flavors to stimulate an animal's gustatory and olfactory receptors, maximising palatability.

Benefits

- Increases feed consumption by enhancing appetite stimulation and palatability
- Promotes gut health and digestive efficiency to maximize nutrient utilization

Palatants/Multi Functional Palatant ()



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- Hundreds of times sweeter than sucrose
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- Contains aromatic substances with attractive olfactory properties
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Quality



Promoting health & natural defences









Xtract is a feed additive made from standardized microencapsulated combinations of naturally occurring active substances from plants.

Benefits

- Maintain or improve quality attributes of animal products to meet market demands
- Prevents disease outbreaks

- Ocontains nature inspired bioactive compounds derived from cinnamon, oregano, capsicum, turmeric and garlic
- Microencapsulation technology ensures compounds are protected, standardized and evenly delivered in the animal's gastrointestinal tract.

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Promoting health & natural defences









B-Safe is an innovative and patented solution based on a combination of copper and synthetic zoelite.

Benefits

Prevents disease outbreaks

- Ocontains copper which is a trace-element supporting iron metabolism and the immune function.
- Copper Is recognized for its anti-microbial properties. Scientific studies on copper demonstrate its effect against Gram positive and negative bacteria.
- Can be used as an alternative to AGP
- Highly dispersible within the gut

Promoting health & natural defences









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- Copper Is recognized for its anti-microbial properties. Scientific studies on copper demonstrate its effect against Gram positive and negative bacteria.
- Can be used as an alternative to AGP
- Highly dispersible within the gut

Gut integrity



Stress





Anco Fit is a Gut Agility Activator that supports the adaptive capacity of high performing farm animals in a sustainable way.

Benefits

- Promotes gut health and digestive efficiency to maximize nutrient utilization
- Mitigates effects of environmental stressors on animal health and welfare.

Bioactives (



Features

O Contains bioactive substances naturally found in herbs and spices, and functional carriers such as yeast components and efficient clays.

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Stress



Promoting health & natural defences





Powerjet is made of a unique and synergistic combination of active ingredients coming from 2 plants. The bioactive substances act to support the physiologic functions of the animal, helping with the digestive process and the allocation of nutrients to the production process

Benefits

- Mitigates effects of environmental stressors on animal health and welfare.
- Prevents disease outbreaks

Bioactives ()



- All natural ingredients
- Patented technology
- Available in different concentrations according to application

Stress



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Bioactives (



Oilis is a mix of active ingredients derived from plants providing a prophylactic and natural solution against coccidiosis and cryptosporidiosis. It can support animal resilience during the critical life periods by keeping gut integrity and parasites' populations under control.

Benefits

Prevents disease outbreaks

- O Contains natural herbal extracts acting in synergy
- O Can be used in organic farming
- O Does not generate cross contamination in production lines

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Bioactives (



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Yield





NexUlin is an innovative bioactive solution developed to support dairy cows during the transition period from non-lactating to lactating by ensuring sufficient glucose is available to the udder. It helps build a more efficient lactation cycle and alleviates energy deficiency during early lactation.

Benefits

Optimizes quantity of animal products for increased profitability

Bioactives ()



- Made of standardized micro-encapsulated and rumen protected capsaicinoids, compounds that are naturally present in Capsicum oleoresin
- Unique Iso- Fusion Technology
- The result of 20 years of scientific research and development

Yield





Features

Bioactives ()



Nextend is an innovative phytogenic product designed for post-peak laying hen production. Nextend may alleviate the limitations specific to the later stage of the laying period, keeping layers fit and helping to maintain egg production.

Benefits

Optimizes quantity of animal products for increased profitability

- Single phytogenic ingredient
- Unique to ADM

Promoting health & natural defences



Gut integrity





Citristim, an ADM proprietary feed ingredient, is a proven, truly unique whole-cell inactivated yeast (Pichia guilliermondii) product beneficial in the diet for all life stages and classes of livestock. Citristim and its active components, such as mannans and β-glucans, may help the ani-mal strengthen its defense against health challenges by supporting and optimizing gut function, gut integrity, and body defense responses, strengthening production.

Benefits

- Prevents disease outbreaks
- Promotes gut health and digestive efficiency to maximize nutrient utilization

Biotics (



- The use of *Pichia guilliermondii* has been pioneered by **ADM**
- Produced using a specialized fermentation and heat conditioning process
- Has unique morphology, cell wall composition and structure
- Numerous studies demonstrate the association between its use in animal feed and beneficial effects on host parameters

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Promoting health & natural defences





Aquatrax is a dedicated aqua feed additive based on Pichia Guillermondii. It incorporates novel yeast technology with unique morphological and structural properties that provide enhanced immune support to shrimps and fishes, particularly in the presence of pathogens and other stressors.

Benefits



Prevents disease outbreaks

Biotics ()



- Aquatrax is the result of more than 20 years of research, resulting in an exclusive prebiotic additive purified from whole *Pichia Guillermondii* cells. The Aquatrax mode of action impacts directly upon the animal's immune physiology, intestinal ecology and the harmful microbial agents population, promoting improved performance.
- Aquatrax was developed through specialized fermentation and heat-conditioning of pure, whole cell Pichia Guilliermondii, a small yeast cell with a high surface area to volume ratio: for example, 25g of **Aquatrax** have ~ 100m2 surface area available for interaction.

Nutrient Utilization





B-Traxim is a range of organic trace minerals bound to glycine. Its patented chemical structure and production process ensure high stability and increased bioavailability compared to inorganic sources and other less stable organic mineral sources commonly used in the feed industry.

Benefits

Maximizes nutrient absorption and utilization from feed for improved health and performance

Organic Trace Minerals (V)



- The structure and coating make it very stable, preventing degradation, dust and cross contamination
- Includes a high concentration of minerals (higher than competition) and an amino acid that enhances bioavailability
- Is free flowing, soluble and mixes with feed easily and effectively
- Proven performance supported by more than 90 animal trials
- Features the first patented OTM production process in animal nutrition

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Promoting health & natural defences









A unique and natural additive based on non-activated charcoal that works to bind toxins and promote intestinal health and digestive comfort in animals.

Benefits

Prevents disease outbreaks

- Made from the wood of oak trees
- Unique production process guaranteeing thermo structured pores

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Mycotoxin Mgmt.





T5X is a comprehensive approach to mycotoxin risk management in animal production combining product solutions and services. The range of solutions help in binding mycotoxins, enhancing the animals own detoxifying enzymes, and in supporting immunity and anti-oxidant capacity. Our services support the development of a risk management plan, monitoring and analysis.

Benefits

Mitigates risk of toxin feed contamination

Toxinsbinders ()



- Advice and control on controlling mycotoxins
- Zootechnical support and mycotoxin expertise
- Mycowatch Mobile App providing risk and dosage advice
- T5X solutions contain a clay with the highest aflatoxin binding capacity

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Yield





Daacid is a feed acidifier, an organic acid that can be added to feed in order to reduce pH levels in the animal's stomach. In doing so **Daacid** can create an optimal environment for protein digestion, enhancing feed utilization and reducing available substrate for potentially noxious gram bacteria to grow on.

Benefits

Optimizes quantity of animal products for increased profitability

Feed acidifier (pH)



- O Combination of antibacterial organic acids
- Available as free flowing powder or as concentrated liquid

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Promoting health & natural defences





Anti Salmonella (pH)



Killprotect is an acidifier that can be used to control the impact of enterobacteria such as E-coli and salmonella. Killprotect is able to penetrate the cell membrane of these potentially noxious Gram-negative microorganisms and lower their pH, creating a hostile environment for these undesirable bacteria.

Benefits

Prevents disease outbreaks

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Quality





Mycosur is a preservative based upon a mix of organic acids. It can be used to inhibit the growth of mold and yeast in raw materials and in feed during long term storage, thus maintaining freshness and reducing any potential drying costs for infected grain.

Benefits

Maintain or improve quality attributes of animal products to meet market demands

Mold inhibitor (pH)



- O Combination of selected organic acids and their salts
- Available as free flowing powder or as concentrated liquid

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Demedication





Daafit is a unique combination of medium-chain fatty acids (MCFAs). Owing to their lipophilic structure MCFA's have a specific mode of action that can control the growth of harmful Gram+ bacteria e.g. streptococcus. In use, Daafit is able penetrate thorough the lipophilic cell membrane of the Gram + bacteria and kill it.

Benefits

Reduced reliance on medications, particularly antibiotics, through preventive health measures

Medium-Chain Fatty Acids (pH)



- Combination of selected MCFA and monoglycerides
- Potent antibacterial effect
- Available as free flowing powder, which remains stable under challenging conditions

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Gut integrity





Daaforce is a slow-release form of concentrated butyric acid, based upon esterification technology. The butyrate in glyceride form is released by lipase, naturally present in the gastrointestinal tract. Butyrate is known to stimulate cell proliferation, leading to longer villi and therefore a larger surface for nutrient absorption.

Benefits

Promotes gut health and digestive efficiency to maximize nutrient utilization

Gut Health (PH)



- Esterified butyric acid
- Concentrated free flowing powder
- Odorless form of butyric acid
- Heat stable and non-corrosive
- Effective at low dose levels
- Easy to handle by operators

Gut integrity





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Gut integrity





Daacap is an optimized mix of organic acids. The coating technology used in its production adds protection and creates a slow-release mode of action. The organic acids are released by lipase, naturally present in the gastrointestinal tract.

Benefits

Promotes gut health and digestive efficiency to maximize nutrient utilization

Gut Health (PHE)



- Organic acids protected by fat matrix
- Free flowing powder
- Effective at low dose levels
- Easy to handle by operators
- Heat stable and non-corrosive.
- Can be used in premixtures

Gut integrity





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Demedication





NUTRIO+ is a comprehensive line of water applications designed to meet the specific needs of high-performing animals while supporting the good health of the animals. By offering a broad spectrum of solutions, **NUTRIO+** not only supports animal welfare but also offers farmers the flexibility to optimize animal performance and productivity. With a focus on high performance, NUTRIO+ expands the current range of water applications by offering a unique combination of carefully selected ingredients

Benefits

Reduced reliance on medications, particularly antibiotics, through preventive health measures

Water applications (pH)



- Combination of selected SCFA, MCFA, esterified acids and phytogenic bioactives.
- Moreover, this range is designed to offer additional flexibility, allowing NUTRIO+ products to complement standard applications through feed. They can be seamlessly incorporated into water, especially during periods when providing separate feed becomes impractical.
- Recommendation is a dose of 1-2 I/1,000 I water (*pH dependent) direct via dosing pump. With a minimum of 1 liter for a sufficient number of active molecules in the system for optimum effectiveness.

Solutions Vs. Needs

	Protein Efficiency				Animal Robustness and Welfare									Sustainability and Environment	
	Yield	Quality	Feed cost / efficiency	Feed intake	Reproduction	Survivability	Nutrition absorption	Gut integrity	Stress	Promoting health & natural defences	Pest control	Mycotoxin risk management	Pollution and emissions	Demedication	
Sucram															
AromSense															
MagnaSweet															
Xtract															
B-Safe															
Anco FIT [®]															
Powerjet															
Oilis															
Nexulin															
Nextend															
Citristim ^e															

Solutions Vs. Needs

	Protein Efficiency				Animal Robustness and Welfare									Sustainability and Environment	
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4 Aquatrax															
B-Traxim															
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T5X															
₩ DaaCid															
KillProtect															
⊗ MycoSur															
♦ DaaFit															
ॐ DaaForce															
₽ DaaCap															
Nutrio															

Feed intake



Gut integrity







Sucram is a range of high intensity sweeteners with potentiators and enhancers that have been specifically formulated to target an animal's sweet taste receptors and activate them, thereby stimulating feed intake.

Benefits

- **Promotes gut health and digestive efficiency**

Palatants/Sweeteners ()



- Saccharin Free (Sucram Mi-Sweet & Sucram Specifeek)
- Contains Monk Fruit (Sucram Mi-Sweet)
- Hundreds of times sweeter than sucrose
- Effective taste masking qualities
- Unique Iso-Fusion technology
- Formulated to provide accurate dosage and release

Feed intake







AromSense is a range of feed additives formulated to improve the olfactory quality (the smell) of feed. Aromatic molecules are combined to stimulate the olfactory receptors in the animal's nose.

Benefits

Increases feed consumption by enhancing appetite stimulation and palatability

Palatants/Flavors ()



- Contains aromatic substances with attractive olfactory properties
- Versatile and comprehensive portfolio of flavours
- Pioneering product within the flavor category
- Based upon more than 75 years of experience and research

Feed intake



Gut integrity





Magnasweet combines a high intensity sweetener with sophisticated flavors to stimulate an animal's gustatory and olfactory receptors, maximising palatability.

Benefits

- Increases feed consumption by enhancing appetite stimulation and palatability
- Promotes gut health and digestive efficiency to maximize nutrient utilization

Palatants/Multi Functional Palatant ()



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Quality



Promoting health & natural defences









Xtract is a feed additive made from standardized microencapsulated combinations of naturally occurring active substances from plants.

Benefits

- Maintain or improve quality attributes of animal products to meet market demands
- Prevents disease outbreaks

- Ocontains nature inspired bioactive compounds derived from cinnamon, oregano, capsicum, turmeric and garlic
- Microencapsulation technology ensures compounds are protected, standardized and evenly delivered in the animal's gastrointestinal tract.

Promoting health & natural defences









B-Safe is an innovative and patented solution based on a combination of copper and synthetic zoelite.

Benefits

Prevents disease outbreaks

- Ocontains copper which is a trace-element supporting iron metabolism and the immune function.
- Copper Is recognized for its anti-microbial properties. Scientific studies on copper demonstrate its effect against Gram positive and negative bacteria.
- Can be used as an alternative to AGP
- Highly dispersible within the gut

Gut integrity



Stress





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- O Does not generate cross contamination in production lines

Yield





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- Unique Iso- Fusion Technology
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T5X is a comprehensive approach to mycotoxin risk management in animal production combining product solutions and services. The range of solutions help in binding mycotoxins, enhancing the animals own detoxifying enzymes, and in supporting immunity and anti-oxidant capacity. Our services support the development of a risk management plan, monitoring and analysis.

Benefits

Mitigates risk of toxin feed contamination

Toxinsbinders ()



- Advice and control on controlling mycotoxins
- Zootechnical support and mycotoxin expertise
- Mycowatch Mobile App providing risk and dosage advice
- T5X solutions contain a clay with the highest aflatoxin binding capacity

Yield





Daacid is a feed acidifier, an organic acid that can be added to feed in order to reduce pH levels in the animal's stomach. In doing so **Daacid** can create an optimal environment for protein digestion, enhancing feed utilization and reducing available substrate for potentially noxious gram bacteria to grow on.

Benefits

Optimizes quantity of animal products for increased profitability

Feed acidifier (pH)



- O Combination of antibacterial organic acids
- Available as free flowing powder or as concentrated liquid

Promoting health & natural defences





Anti Salmonella (pH)



Killprotect is an acidifier that can be used to control the impact of enterobacteria such as E-coli and salmonella. Killprotect is able to penetrate the cell membrane of these potentially noxious Gram-negative microorganisms and lower their pH, creating a hostile environment for these undesirable bacteria.

Benefits

Prevents disease outbreaks

- O Combination of antibacterial organic acids
- Available as free flowing powder or as concentrated liquid

Quality





Mycosur is a preservative based upon a mix of organic acids. It can be used to inhibit the growth of mold and yeast in raw materials and in feed during long term storage, thus maintaining freshness and reducing any potential drying costs for infected grain.

Benefits

Maintain or improve quality attributes of animal products to meet market demands

Mold inhibitor (pH)



- O Combination of selected organic acids and their salts
- Available as free flowing powder or as concentrated liquid

Demedication





Daafit is a unique combination of medium-chain fatty acids (MCFAs). Owing to their lipophilic structure MCFA's have a specific mode of action that can control the growth of harmful Gram+ bacteria e.g. streptococcus. In use, Daafit is able penetrate thorough the lipophilic cell membrane of the Gram + bacteria and kill it.

Benefits

Reduced reliance on medications, particularly antibiotics, through preventive health measures

Medium-Chain Fatty Acids (pH)



- Combination of selected MCFA and monoglycerides
- Potent antibacterial effect
- Available as free flowing powder, which remains stable under challenging conditions

Gut integrity





Daaforce is a slow-release form of concentrated butyric acid, based upon esterification technology. The butyrate in glyceride form is released by lipase, naturally present in the gastrointestinal tract. Butyrate is known to stimulate cell proliferation, leading to longer villi and therefore a larger surface for nutrient absorption.

Benefits

Promotes gut health and digestive efficiency to maximize nutrient utilization

Gut Health (PH)



- Esterified butyric acid
- Concentrated free flowing powder
- Odorless form of butyric acid
- Heat stable and non-corrosive
- Effective at low dose levels
- Easy to handle by operators

Gut integrity





Daacap is an optimized mix of organic acids. The coating technology used in its production adds protection and creates a slow-release mode of action. The organic acids are released by lipase, naturally present in the gastrointestinal tract.

Benefits

Promotes gut health and digestive efficiency to maximize nutrient utilization

Gut Health (PHE)



- Organic acids protected by fat matrix
- Free flowing powder
- Effective at low dose levels
- Easy to handle by operators
- Heat stable and non-corrosive.
- Can be used in premixtures

Demedication





NUTRIO+ is a comprehensive line of water applications designed to meet the specific needs of high-performing animals while supporting the good health of the animals. By offering a broad spectrum of solutions, **NUTRIO+** not only supports animal welfare but also offers farmers the flexibility to optimize animal performance and productivity. With a focus on high performance, NUTRIO+ expands the current range of water applications by offering a unique combination of carefully selected ingredients

Benefits

Reduced reliance on medications, particularly antibiotics, through preventive health measures

Water applications (pH)



- Combination of selected SCFA, MCFA, esterified acids and phytogenic bioactives.
- Moreover, this range is designed to offer additional flexibility, allowing NUTRIO+ products to complement standard applications through feed. They can be seamlessly incorporated into water, especially during periods when providing separate feed becomes impractical.
- Recommendation is a dose of 1-2 I/1,000 I water (*pH dependent) direct via dosing pump. With a minimum of 1 liter for a sufficient number of active molecules in the system for optimum effectiveness.

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