

Gut Health Solutions – Probiotics

Featuring Evonik **GutCare®** and **Ecobiol®**



INDUSTRY CHALLENGES

Efficient poultry production involves a balancing act of nutrition, gut health, and animal welfare. Especially regarding the continued trend of reducing or eliminating the use of antibiotics in poultry feed when birds could still face unfavorable environmental conditions, potential diseases, and diets formulated with suboptimal feed ingredients.

Establishing a beneficial gut microbiota and supporting nutrient digestion and absorption is crucial for newly hatched chicks. Moreover, maintaining microbial balance is critical during all growth and production phases.

PRODUCT FEATURES

GutCare® and **Ecobiol®** are functional feed additives that support a more balanced intestinal microbial population. These probiotics support a symbiotic relationship between nutrition and a beneficial gut microbiota. Both solutions are based on spore-forming strains: *Bacillus subtilis* DSM 32315 and *Bacillus amyloliquefaciens* CECT 5940, respectively. These strains germinate and grow under intestinal conditions, withstand the acidic environment in the gut and the gizzard passage, and grow in the presence of bile and organic acids. Moreover, **GutCare®** and **Ecobiol®** have demonstrated the inherent ability to support a healthy microbiota, making them effective solutions. They are stable under feed pelleting temperatures, high humidity, and temperature storage conditions, do not express virulence factors, or carry antimicrobial resistance genes linked to resistance relevant to humans and animals. These features provide the basis for effective products designed to meet specific customer needs.

With the use of these probiotics, producers can support food safety, sustainability, and profitability challenges!

	GUTCARE®	ECOBIOI®
Strain	<i>Bacillus subtilis</i> DSM 32315	<i>Bacillus amyloliquefaciens</i> CECT 5940
Strain Properties	<ul style="list-style-type: none"> • Identified mode of action • Natural spore-forming bacteria • Resistant to feed pelleting temperatures • Resistant to low pH and bile • Grows in presence of organic acids 	
Benefits	<ul style="list-style-type: none"> • Proven to support a healthy gut microbiota through accumulated evidence from multiple studies and meta-analysis evaluations • Production of metabolites and enzymes supporting digestion and nutrient absorption • Supports the immune system and digestive tract by contributing to a more balanced intestinal microbial population • Survives feed manufacturing processes such as high pelleting temperatures • Can be combined with most existing feed practices • Germinates and grows under intestinal environmental conditions • Is compatible with most commonly used commercial coccidiostats and organic acids 	
Available in standard and concentrated forms	<ul style="list-style-type: none"> • GutCare® for standard in-feed application: Add min. 500 g / mt feed (1 lb per ton of feed) • GutCare® X concentrate for premixes: Add min. 50 g / mt feed (0.1 lb per ton of feed) 	<ul style="list-style-type: none"> • Ecobiol® 500 for standard in-feed application: Add min. 500 g / mt feed (1 lb per ton of feed) • Ecobiol® Plus concentrate for premixes: Add min. 100 g / mt feed (0.2 lb per ton of feed)

WHAT'S IN IT FOR YOU?

Nutrition and health are closely linked in achieving optimal well-being and performance of an animal. Nutritional factors such as feed ingredient quality, feed composition, and nutrient digestibility can impact intestinal health, and ultimately, the animal's health. Evonik's expertise in animal nutrition gives us an advantage in extending our knowledge and portfolio to the area of animal well-being, providing a holistic approach to the challenges of animal production. As a science-based company, we aim to close current knowledge gaps regarding non-antibiotic feed additives and their potential interaction with nutrition, gut function, the microbiome, and animal performance.

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Contact Our Technical Experts

for access to proven scientific data on **GutCare®** and **Ecobiol®**, and to discuss which product strain is the best fit for your production and performance needs.

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