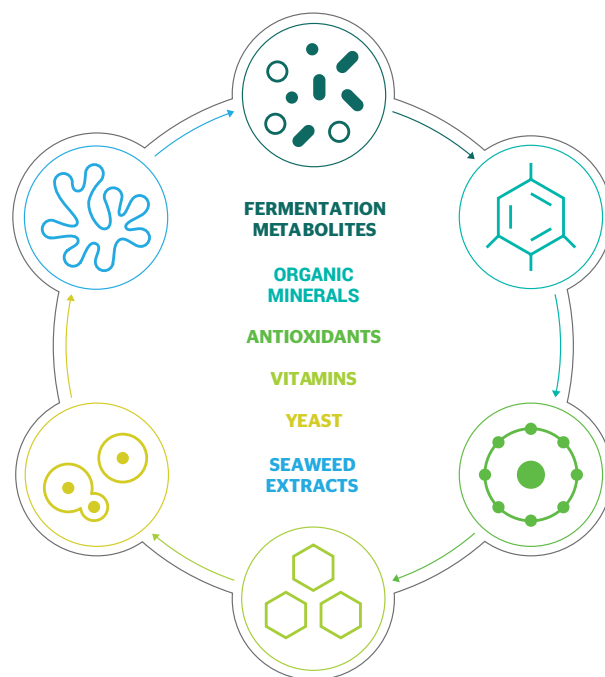


Accelerating Sustainable Agriculture

You strive everyday for one thing: hardy animals. At Cytozyme, we've applied our 40+ years of innovation in fermentation metabolites to create a complete, easy to use solution. Our animal nutrition products include a multi-stage fermentation process to create a diverse set of metabolites. It's a simple choice and the single most impactful decision for farmers who care.

lumensa™



Produced following good manufacturing practices and National Animal Supplement Council guidelines

Does not contain Genetically Modified Organisms materials

Uses only materials which are on the FDA Generally Recognized as Safe List

Utilizes highest quality feed, food and FCC/USP grade materials approved by Association of American Feed Control Officials

A comprehensive solution to gut health

Gut health is central to the overall wellbeing of every animal. This "second brain" is responsible for the most critical functions – the digestive and immune systems. It is where nutrients are absorbed and it is where disease causing organisms are stopped.

In a antibiotic free world, efforts are to support gut health through one avenue or another. We think there's a better way. We bring together a collection of approaches, for a single stable solution that supports robust biome and healthy animal gut, reducing the impact of stresses and improves your production.

Lumensa is a functional matrix, not a mixture of ingredients

Trial results prove it's a simple choice

ENHANCED	WEIGHT GAIN	2.8%
ENHANCED	FEED CONVERSION	2.6%
REDUCED	MORTALITY	3%
REDUCED	LESION SCORES	31%
REDUCED	E. COLI	10%
REDUCED	SAMONELLA INCIDENCE	37%

3 Modes of Action of Lumensa™

IMPROVED GUT INTEGRITY
MODIFIED GUT MICROBIOME
REDUCED PATHOGENS

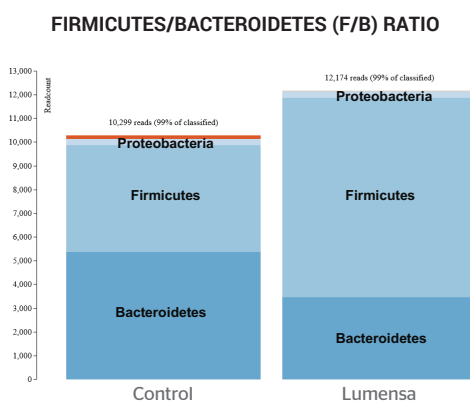
Improved Gut Integrity



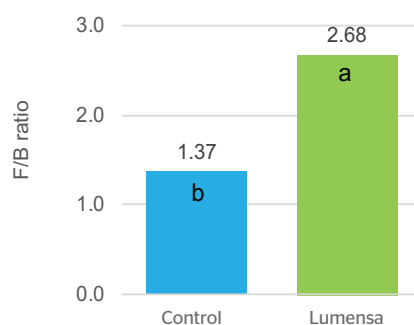
Lumensa for Poultry protect cells from overproduction of ROS supporting gut health and reducing the impact of stress on animal performance.



Modified gut Microbiome

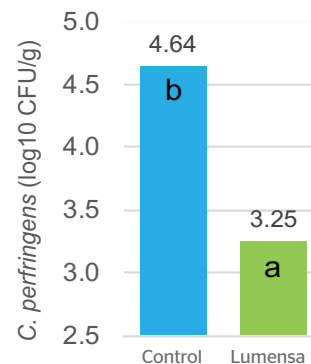
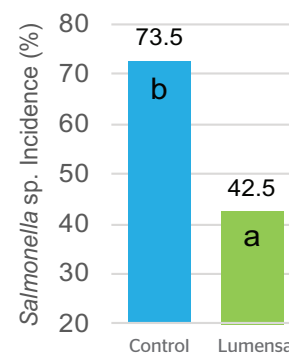
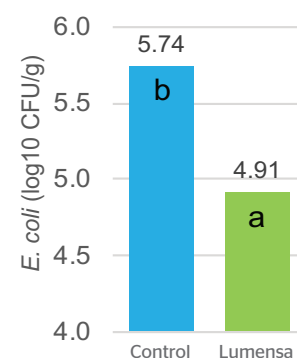


Lumensa increased total microbiome and F/B ratio in the cecum.



Great F/B ratio have been associated with bacterial profiles with high capacity of energy harvesting. Firmicutes have a positive correlation with high energy efficiency, and the F/B ratio affects the amount of energy extracted from the diet. The F/B ratio is directly related to the growth performance of broilers.

Reduced Pathogens



Discover the single most-impactful choice for producers who care.

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