

Hemicell

THE ENERGYSPARING ENZYME

Nutritionist guide

Hemicell: A unique and patented enzyme that minimises metabolisable energy loss caused by the Feed-Induced Immune Response (FIIR) due to b-mannans from feed

Hemicell and the Feed-Induced Immune Response (FIIR)

b-Mannans: The “problem component” in soybean meal

Most vegetable feed ingredients, especially, legumes (like soya and guar), sunflower, rape (canola) and plam kernels contains a “problem component”: Beta-mannans (β -galactomannans). Common broiler diets typically contain between 0,3% and 0,5% β -mannans.

Even small amounts of b-mannans can reduce performance by stimulating a Feed-Induced Immune Response (FIIR)

Here's how it works: The animal's immune system recognizes b-mannans as a Pathogen Associated Molecular Pattern (PAMP) and initiates a protective measure the Feed-Induced Immune Response (FIIR).

About 3% of total metabolisable energy is typically lost to this counterproductive and unnecessary response energy that could be directed toward growth. This response also:

- Cause intestinal inflammation and epithelium damage
- Lowers glucose and insulin secretion
- Causes inflammation in the intestinal epithelia
- Reduces the digestion, absorption and deposition of nutrients

Hemicell & dietary energy

When adding Hemicell to a diet, you can reduce dietary energy by 90 kcal/kg (and lower the feed costs) while maintaining similar performance.

Hemicell is a unique, patented enzyme produced by fermentation of *Bacillus lentus*. The active ingredient is Endo-1,4-b-D-mannanase

1. A supplement containing betamenance (HT hemicellulose) compared to a mixture of enzymes can maintain or even improve the performance of broilers. 2. The possibility of maintaining the production of broilers with a low-calorie diet (elimination of 100 kcal / kg in energy used to supply metabolic energy (ME). 3. Using HT hemicell in the diet and due to the impact of energy storage	Conclusions
HT Hemicell is recommended for poultry diets that contain at least 12%soybean meal.	Using time
400-220 gram per ton of feed	Dosage

