Protein Utilization

Efficient protein utilization reduces feed costs, incidence of footpad dermatitis and environmental impact







The effect of protein levels

- Reducing feed costs with an alternative protein source may help your bottom line but the effects on flock performance and the environment may negatively impact your top line.
- Proteases can be added to a diet to speed up the breakdown of proteins, but proteases vary in their stability during feed processing and in their efficacy to digest protein.
- Excess protein in the hindgut could increase the bird's susceptibility to enteric challenges.
- Not meeting the vitamin requirements affects the bird metabolism resulting in suboptimal protein utilization.
- Mycotoxins in the feed compromise protein digestibility in the bird.
- Undigested protein from the gut goes into the environment, increasing welfare concerns and the environmental impact.

Protein utilization portfolio offering

We can optimize feed costs while reducing environmental impact by decreasing the amount of undigested protein. A **second generation, advanced protease created specifically for feed** with optimal pH and temperature stability and faster proteolytic ability increases protein digestibility. A novel **precision- biotic** redirects protein away from opportunistic pathogens and towards productive microbial protein metabolism. By providing **optimum vitamins** that have higher bioavailability and by **deactivating mycotoxins** in the feed, efficient utilization of protein can be achieved. Using **blood biomarker modeling** to evaluate the dietary amino acid balance of the birds supports more consistent nutrition and health of your flock. By monitoring ammonia emissions, the **environmental impact** can be calculated. DSM provides comprehensive solutions to improve dietary protein utilization, ensuring a return on your investment.

RONOZYME® ProAct

RONOZYME[®] ProAct is DSM best-in-class feed protease which increases protein digestion across a range of feed ingredients, thereby reducing feed costs.

OVN Optimum Vitamin Nutrition®

Provides birds a fast track to protein metabolism for improved production and better performance.

Mycofix[®]

Deactivates mycotoxins to help support efficient protein utilization.

ProAct 360™

DSM is the first and only supplier to launch its second generation feed protease, ProAct 360™, in order to reduce production costs, while making animal production even more sustainable.

Verax™

Harness the power of data to get a deeper understanding of the overall health, productivity and welfare of your birds.

Symphiome™

First of it's kind precision-biotic, which harnesses the power of the microbiome to deliver increased protein utilization.

Sustell™

Sustell™ is an intelligent sustainability service that combines the most advanced environmental foot printing calculation tool with expert sustainability, animal production and nutritional knowledge.

ANIMAL NUTRITION AND HEALTH



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