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NEW RESEARCH IDENTIFIES OPTIMUM ENZYME RATIOS FOR MATRIX BENEFIT

A new four-way comparative study from AB Vista has identified the precise combination of phytase and xylanase required to effect significant improvement in the nutritional matrix – and associated savings in feed cost.

The research, to be presented at the Poultry Science Association's Latin American Scientific Conference in São Paulo, Brazil, from 6th to 8th November, investigated the effect of four variants of feed formulation on a total of 912 male chicks.

Distributed via a randomised complete block design, with four treatments across 12 pen replicates, chicks received diets ranging incrementally from an enzyme-free feed, to a diet fully supplemented with 2,000FTU/kg of Quantum Blue phytase and 9,600BXU/kg of Econase XT xylanase.

Summarising the results recorded from zero to 42 days of age, AB Vista's LAM Technical Manager, Dr. Alexandre Barbosa de Brito, reveals:

“A significant difference was observed across weight corrected FCR, which was reduced by 27 points in birds fed the fully supplemented diet, compared to those receiving the enzyme-free feed. Evaluating the total cost of production, broilers receiving fully supplemented diets were cheapest across all four treatments – proving that this strategy generates a real competitive advantage in terms of both performance and profits.”

The study is one in a series of 10 poultry and swine trials supporting the company's new enzyme application, Maximum Matrix Nutrition – which delivers complete phytate breakdown, reduces viscosity and increases fibre fermentability. Mr de Brito outlines the related mode of action:

“The precisely calibrated application of phytase and xylanase essentially has a dual effect, increasing the use of amino acids, minerals and energy, whilst also working on the respective substrates to minimise antinutritive effects. The cumulative benefit for producers is a considerable improvement in feed efficiency – and a significant reduction in feed costs.”

In broiler validation trials conducted globally, the new application has generated average feed cost savings in excess of US\$15 per tonne.

The oral presentation, abstract #197, is titled 'Mineral, amino acid, and energy sparing effect of a high dose of phytase, combined with xylanase, on performance, foot pad dermatitis, tibia ash, and carcass yield of male broilers from 1 to 42 days'. It will run for 10 minutes during the Metabolism and Nutrition, Enzymes I session at the Imperial Ballroom G-H on Wednesday 7th November at 4.20pm.

For more information, contact AB Vista on +44(0)1672 517 650 or info@abvista.com. Follow AB Vista on Twitter: [@ABVista](https://twitter.com/ABVista).

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Notes to editor:

AB Vista is an animal nutrition technology company offering pioneering products and technical services to the global animal feed industry. Since its establishment in 2004, AB Vista has grown to be a top-three player in feed enzymes and is also one of the largest suppliers of natural betaine to the global animal nutrition industry. The company invests heavily in research

and development and has a growing portfolio of products and services spanning the poultry, swine, ruminant and aquaculture sectors. AB Vista is headquartered in the UK, with regional offices located in the USA, Brazil, Singapore, Spain, India, China, Germany and Finland.

AB Vista is part of AB Agri, the agricultural division of Associated British Foods, one of Europe's largest food & retail companies with a market capitalisation of £22 billion.

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