

Dose optimization for local poultry diets

To achieve the substantial economic benefits that advanced feed additive technologies, such as the latest *Buttiauxella* phytase, can offer, it is important to achieve the right dose in the feed formulation. In calculating the correct dose, it is crucial to take into account not only the features of the additive – for example, the bio-efficacy of phytase – but also differences in the animal's digestive physiology and variation in diet type.

Our new online Optimize Feed™ Service is an easy-to-use tool that enables producers to determine the right dose of our bio-efficacious phytase products – Axtra® PHY and Phyzyme® XP – and our Betafin® natural betaine to deliver maximum profitability from local diets. It uses accurate and well-researched matrix values based on animal species, diet variation (including substrate levels) and the age of the animal to:

- maximize uptake of phosphorus from phytase supplementation, reducing the need for costly inorganic phosphorus supplementation and balancing calcium levels. It also helps minimize the impact of phytate and other anti-nutrients on the diet using extensive global data on raw material substrates
- allow accurate and safe replacement of costly methionine and choline, and provide support for production stress through addition of Betafin® natural betaine to feed



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The extent of the data on which the Optimize Feed™ Service is based – over 300 data points from around the world for poultry – means that our phytase and betaine customers can rely on it to ensure their feed formulations deliver maximum profitability wherever they are located. For example, producers in Asia Pacific looking to achieve the most profitable dose of our advanced *Buttiauxella* phytase, Axtra® PHY, for broilers and layers on a typical corn/soybean meal/rice bran diet can see that exceeding the industry standard dose of phytase (500 FTU) delivers greater financial benefits. (See table below)

To arrange a demonstration of the Optimize Feed™ Service, please get in touch with your local office or distributor. Contact details can be found at <http://animalnutrition.dupont.com/contact/>

Species	Dose FTU	Net Profit (USD/tonne), depending on matrix values used		
		P/Ca only	P/Ca + 50% of ME & CP/AA	P/Ca + full ME & CP/AA
Broilers (grower)	500	5.26	9.37	13.47
	750	5.59	10.09	14.59
	1000	5.57	10.26	14.97
Layers (phase 2)	300	5.71	9.08	12.45
	450	6.23	9.93	13.62
	600	6.31	10.07	13.83

All values were obtained via Optimize Feed™ Service tool assuming phytate-P level in feed = 0.26%

For further information on our phytase and betaine products, visit <http://animalnutrition.dupont.com/productsservices/>

