



MAXIMIZING YOUR PROFIT FROM PHYTASE

Danisco Animal Nutrition

3 ways to achieve profitable phytase dosing

1. Select a highly bio-efficacious phytase



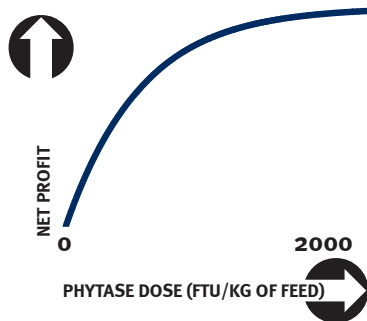
For over 20 years, the industry standard phytase dose has been 500 FTU/kg. Today, inorganic phosphorus costs more, phytase costs less and some phytases are more effective than others, yet the standard hasn't changed.

To achieve optimum phosphorus uptake, reduce the anti-nutrient effects of phytate and increase the availability of costly energy and amino acids today, you need to select:

- a phytase enzyme that is highly active at the low pH conditions prevailing in the animal's upper digestive tract
- the most appropriate dose for that phytase, supported by well-researched matrix values that vary according to animal species, diet variation and the age of the animal

Our highly bio-efficacious bacterial phytase products – Phyzyme® XP¹ and Aextra® PHY¹ – are supported by evidence-based matrix values that support flexible dosing and optimize profitability.

2. Use value-add services to optimize dose



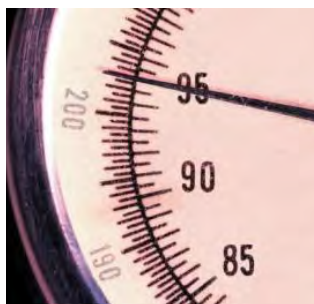
Our online Optimize Feed™ Service² is an easy-to-use tool enabling you to calculate the optimum dose of phytase needed to achieve the strongest performance benefits and cost savings.

It uses accurate and well-researched matrix values based on substrate levels, animal species, diet variation and the age of the animal to maximize:

- uptake of phosphorus and reduce the need for costly inorganic phosphorus supplementation
- release of energy and amino acids by rapidly reducing the anti-nutritional effects of phytate, using extensive global data on raw material substrates

It also helps to establish the right dose of phytase to balance calcium and phosphorus levels, which is important for bone mineralization.

3. Make sure your phytase is heat stable



Significant loss of phytase activity during steam conditioning and subsequent pelleting of feed negatively impacts profitability. A phytase can be made more heat stable by using a well-researched coating to protect it.

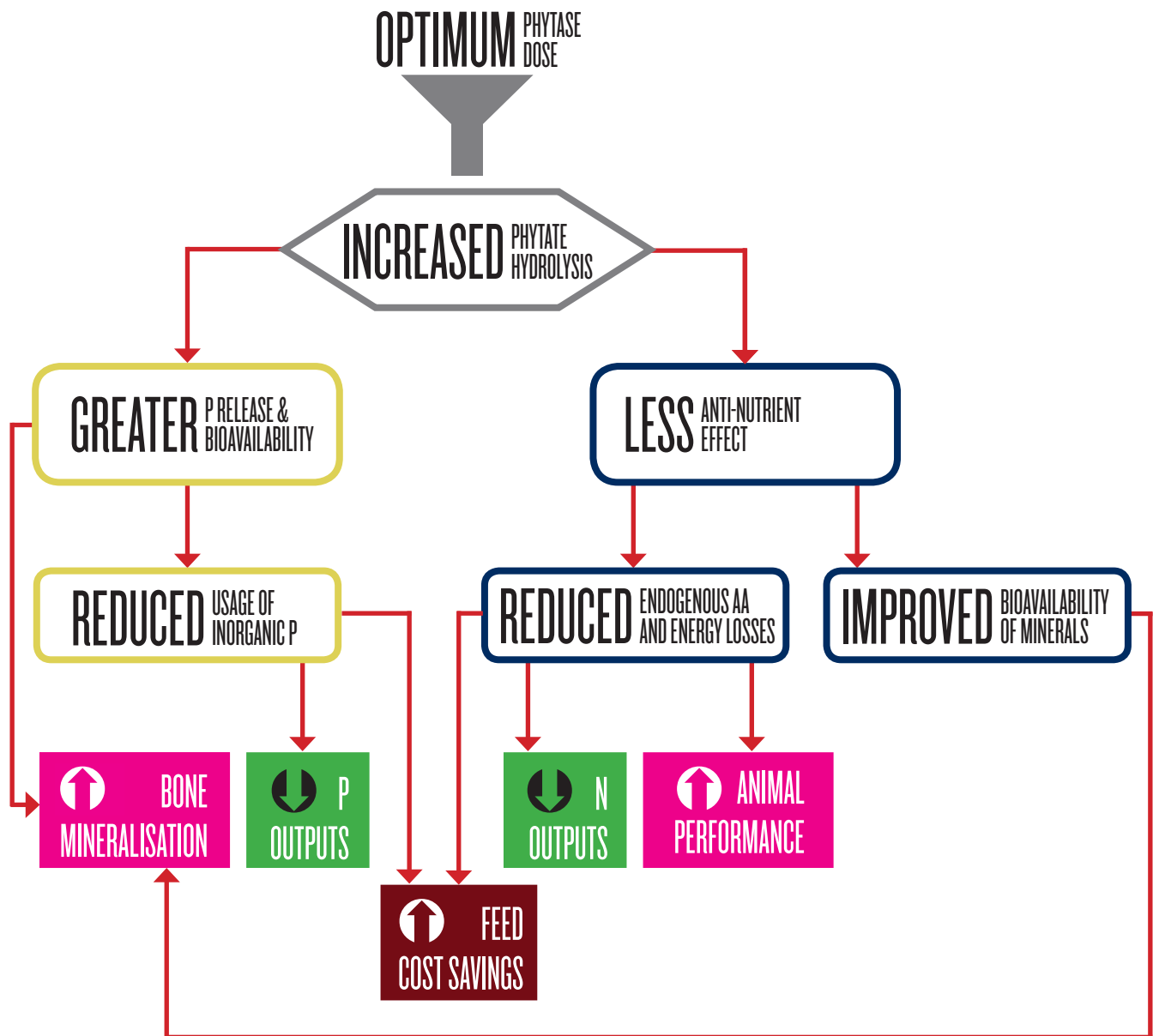
Phyzyme® XP and Aextra® PHY incorporate unique TPT coating technology, which offers heat stability up to 95°C (203°F).³ The TPT coating also allows rapid release of phytase in the upper part of the gut to achieve optimum bio-efficacy.

¹ Product availability is subject to national registrations

² Available for customers only

³ For dry phytase pre-pelleting and liquid post-pelleting

Maximizing production value from phytase



FARM **ENVIRONMENT** **FEED MILL**

Product form

Axtra® PHY and Phyzyme® XP are phytase feed enzymes specifically developed to increase the digestibility of phytin-bound phosphorus, calcium, energy and amino acids in animal diets.

Axtra® PHY

Available as thermostable TPT and in a liquid.

Phyzyme® XP

Available as thermostable TPT, granular (on a wheat carrier) and in a liquid.

Packaging

Dry

Packed in 25 kg multi-wall polyethylene lined paper bags or carton with polyethylene inner bag and in 1000 kg bulk (tote) bags.

Liquid

Packed in 200 kg and 1000 kg containers.

More details on our Phyzyme® XP and Axtra® PHY phytase products are available at <http://animalnutrition.dupont.com>

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