How best to use Axtra® XB

Axtra® XB is designed and extensively tested for use in pig and poultry feeds based on mixed grains, e.g. wheat, barley, rye, triticale, oats, corn and vegetable protein meal.

Higher feed cost savings are achievable by using Axtra® XB in combination with Danisco Animal Nutrition’s Phyzyme® XP phytase to maximise nutrient release.

Axtra® XB feed formulation matrix values for maximum feed cost savings are available on request from Danisco Animal Nutrition.

Product form

Axtra® XB TPT
Packed in 25 kg multi-wall polyethylene lined paper bags, or 1000 kg bulk (tote) bags.

Axtra® XB L
Packed in containers of 200 kg and 1000 kg.

Product concentrations

Axtra® XB comes in a variety of concentrations and blends. To find out which concentration or blend is most suitable for your use please contact your local distributor or Danisco Animal Nutrition regional office.

Axtra® XB

RELIABILITY AND PERFORMANCE FOR MIXED GRAIN DIETS

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To find your nearest local office or distributor visit www.animalnutrition.dupont.com

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info.animalnutrition@dupont.com
www.animalnutrition.dupont.com
Axtra® XB

The first enzyme combination for pigs and all poultry including game birds

Multi-species and flexibility
- Flexible dosing – variable inclusion rate according to feed ingredients to maximise value
- Registered in the EU for use in piglets, grower-finisher pigs, broilers, turkeys, layers, ducks and minor poultry species e.g. pheasants, partridge

Consistency and reliability
- Xylanase and β-glucanase enzyme combination for activity against dietary fibre in mixed grain diets, resulting in improved digestibility and increased profitability
- Proven in trials to consistently improve FCR and daily weight gain across all species

Convenience in application
- Easily used in combination with Danisco Animal Nutrition’s Phyzyme® XP phytase offering good opportunities for additional feed cost savings

Superior heat stability
- Thermo protection technology (TPT) granule for superior thermostability in feed pelleted up to 90°C (194°F)
- Range of liquid and dry product forms for ease of handling in the feed mill

Axtra® XB makes it easy
With the assurance of Danisco Animal Nutrition’s science-based approach to animal nutrition, Axtra® XB is a versatile product that is easy to use.

Axtra® XB has:
- multi-species registration
- flexibility in dose rate
- liquid and dry product forms
- excellent efficacy across a range of raw materials
- market leading heat stability

Consistent performance benefits
Axtra® XB gives consistent economic improvements in performance across a wide range of animal species and diet types, adding value to feed and animal production.

Product form benefits
- Available as a liquid and a dry granular product
- TPT granule ensures thermostability to 90°C (194°F) during pelleting
- Free flowing and dust-free for safe, accurate handling in the feed mill
- Liquid product enables easy post pelleting application

How can Axtra® XB help?
Axtra® XB is a preparation of endo-1,4-β-xylanase and endo-1,3(4)-β-glucanase produced by Trichoderma reesei.
Xylanase and β-glucanase in Axtra® XB target the anti-nutrients arabinoxylan and β-glucan found in the fibre in grains and other raw materials.
By targeting these fibre components Axtra® XB improves digestion by helping release nutrients; reducing digesta viscosity; reducing the production of excessive secretions into the gut (reduced endogenous losses) and improves litter quality and faecal consistency.

Why is dietary fibre costly to animal performance?
The nutritional value of grains and other raw materials is negatively affected by their dietary fibre content. Key components of soluble and insoluble dietary fibre include arabinoxylans and β-glucans, found in plant cell walls (see table right).
The negative effects of soluble and insoluble dietary fibre include:
- acting as a physical barrier to the animal’s own enzymes, encapsulating useful nutrients
- increasing digesta viscosity leading to:
  - decreased feed intake by slowing the passage rate of digesta in the gut
  - reduced nutrient utilisation as the animal’s own enzymes cannot easily reach their substrate
- causing valuable energy and protein/amino acids to be wasted as the animal needlessly produces more of its own enzymes that are inappropriate to deal with dietary fibre
- wet litter or soft/watery faeces due to detrimental changes to the gut microflora

Poorly digested feed reduces animal performance, increases the costs of production and lowers profitability.

<table>
<thead>
<tr>
<th>Grain</th>
<th>Arabinoylan content %</th>
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<tbody>
<tr>
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Axtra® XB target the anti-nutrients arabinoxylan and β-glucan found in the fibre in grains and other raw materials.

Consistency and reliability
- Xylanase and β-glucanase enzyme combination for activity against dietary fibre in mixed grain diets, resulting in improved digestibility and increased profitability
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Why is dietary fibre costly to animal performance?
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**Axtra® XB**

The first enzyme combination for pigs and all poultry including game birds

### Multi-species and flexibility
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