

THE MOST HEAT RESISTANT XYLANASE
GENERATES THE MOST ENERGY



econase[®]XT
THE HARDEST WORKING XYLANASE

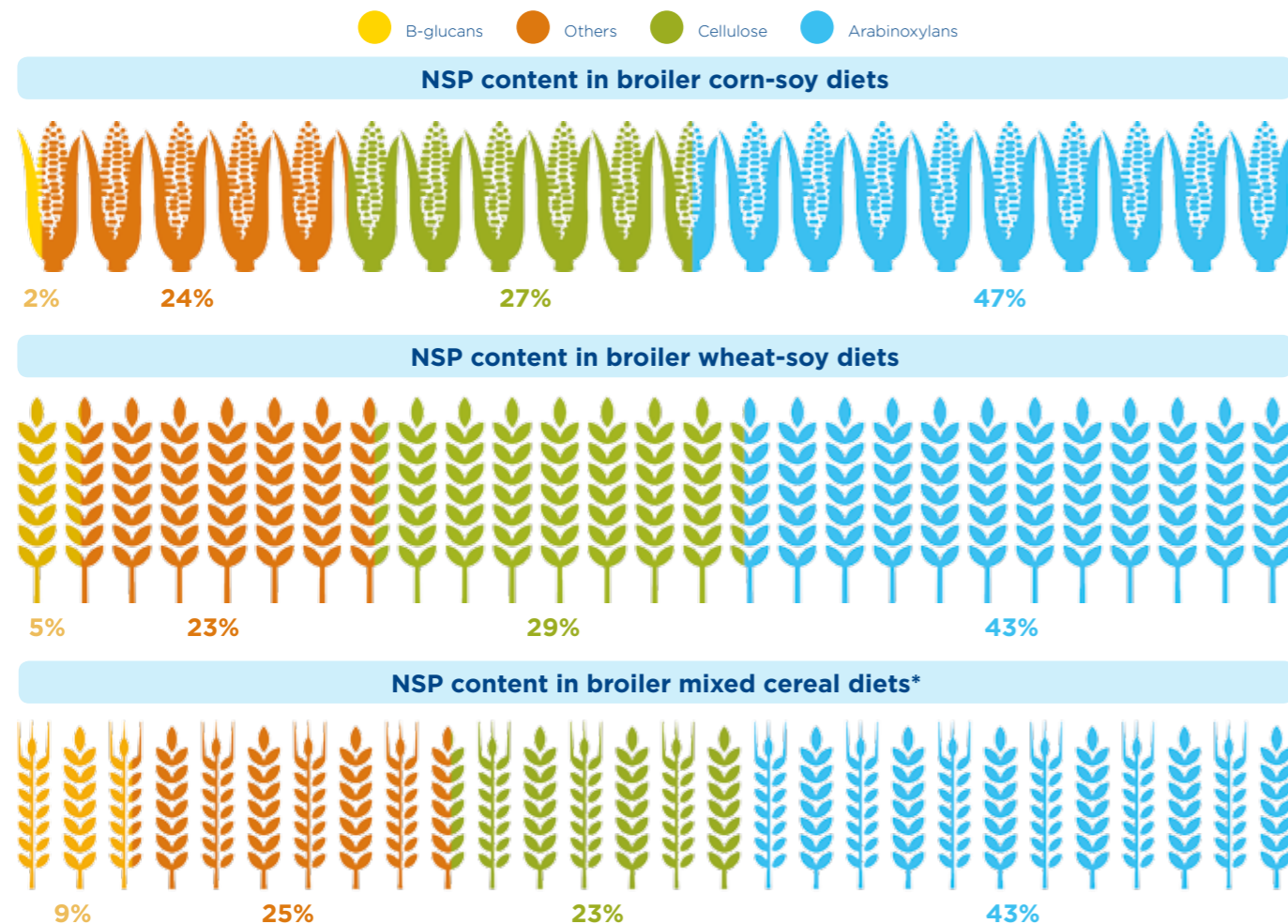


MAXIMISE NSP UTILISATION TO IMPROVE FCR AND REDUCE COSTS

- Energy is the most expensive nutrient in the diet – 100 Kcal/Kg currently costs approximately US\$10/tonne
- Using NSPases creates an opportunity for nutritionists and feed producers to maximise energy utilisation from the diet

WHY CHOOSE XYLANASE?

- Approximately 45% of the NSP composition of corn and wheat-based diets consists of arabinoxylans, making them the largest NSP component in raw materials
- Xylanase is the NSPase that breaks down arabinoxylans into beneficial arabinoxylan oligosaccharides (AXOS), helping to improve animal performance



ECONASE XT - THE XYLANASE THAT DELIVERS OPTIMAL NSP BREAKDOWN FOR IMPROVED ENERGY UTILISATION

A beta 1-4 endo-xylanase that optimises the breakdown of NSP, reducing its anti-nutritive effects and improving the energy utilisation of monogastric diets

* Wheat and barley diets.

FCR: feed conversion ratio
NSP: non-starch polysaccharides

ECONASE XT INFLUENCES NUTRIENT DIGESTION TO INCREASE USABLE ENERGY

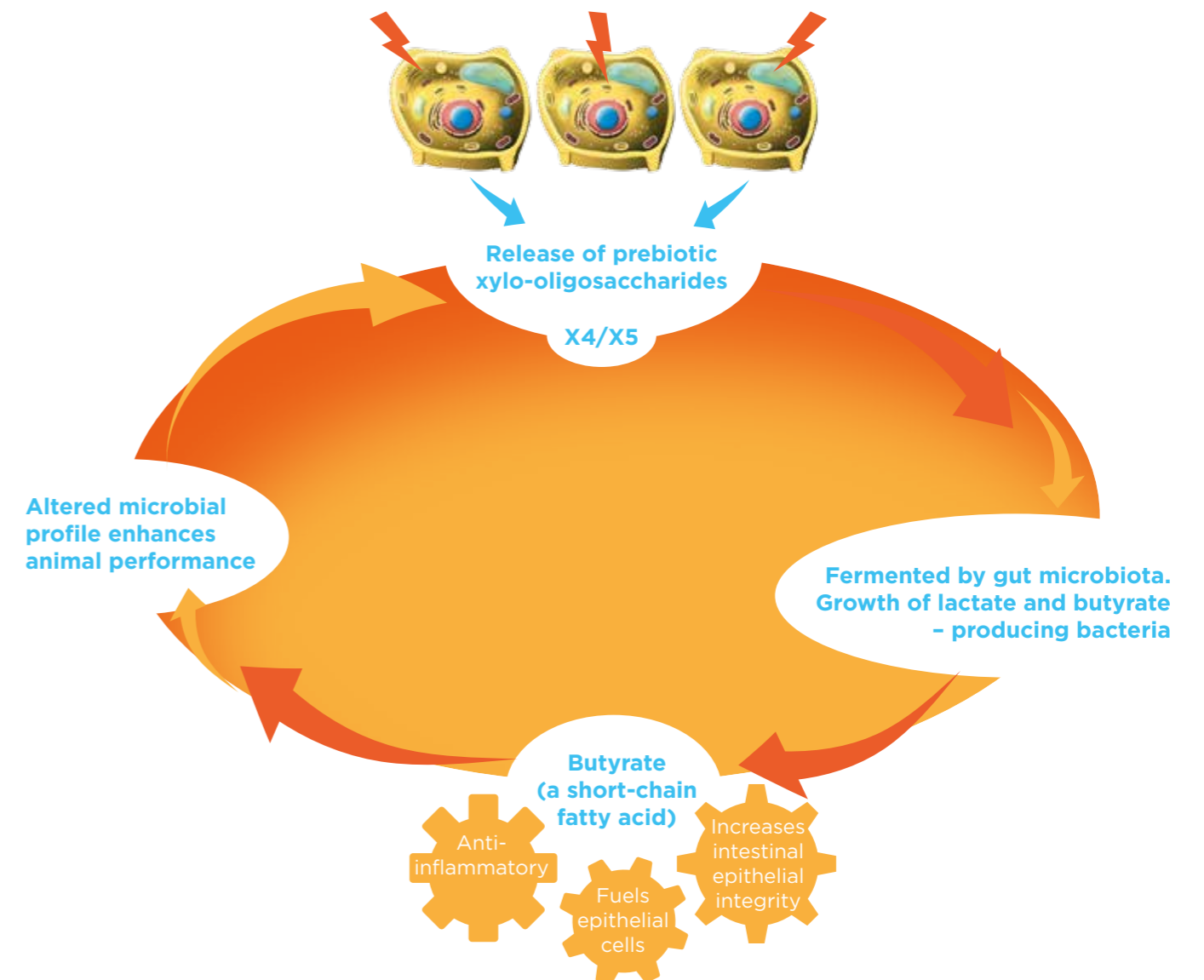
In broilers, Econase XT:

- Reduces digesta viscosity
- Improves nutrient digestibility
- Influences intestinal fermentation

THE PREBIOTIC EFFECT OF ARABINOXYLAN OLIGOSACCHARIDES (AXOS)

- Econase XT influences intestinal fermentation by producing favourable prebiotic xylo-oligomers in the lower GI
- These xylo-oligomers can increase volatile fatty acid production, shift the microbial profile and provide valuable energy for intestinal cells

econase^{XT} Econase XT attacks and breaks down cell walls

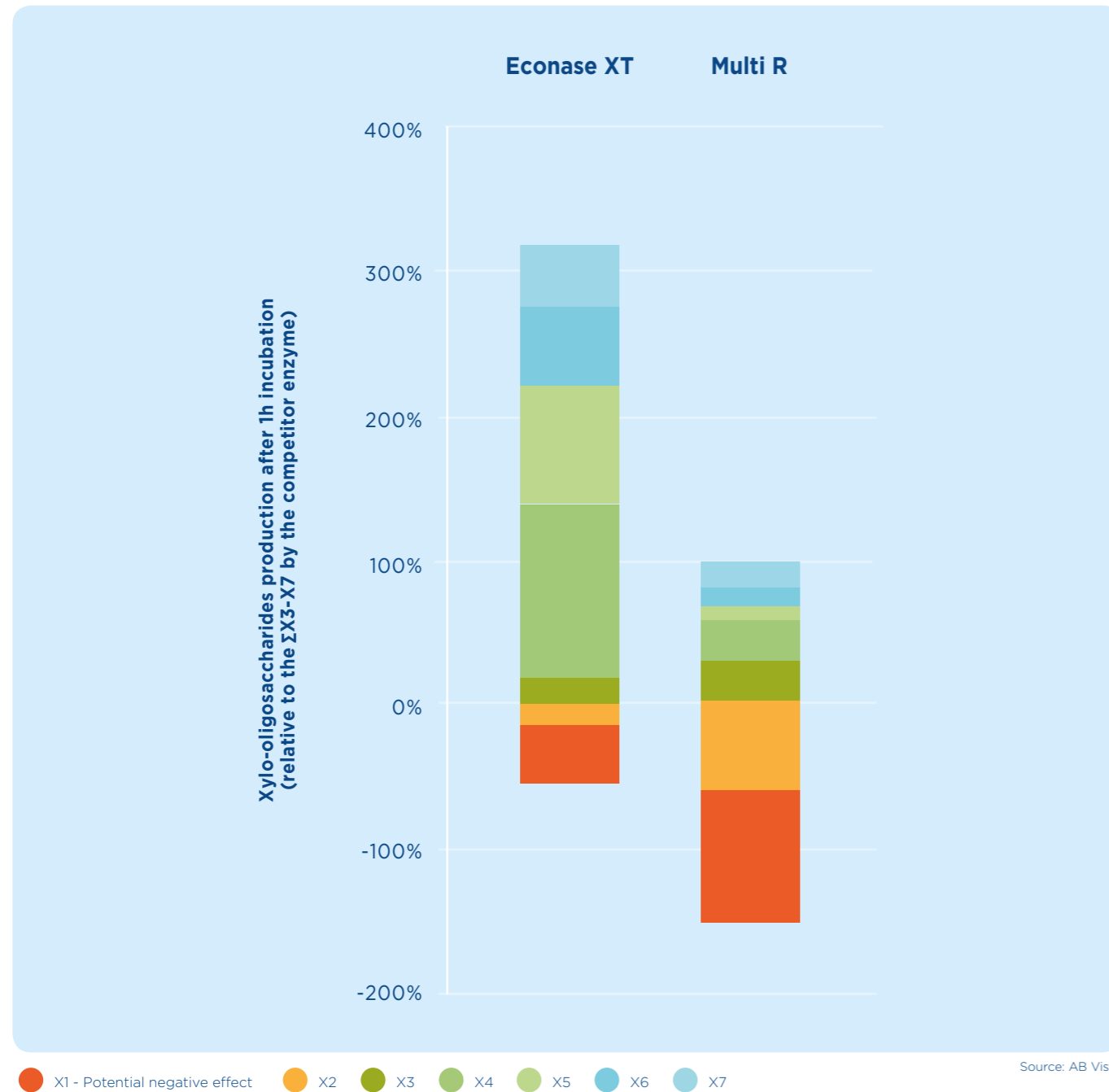


Econase XT helps prime the gut for beneficial bacteria

WHY DOES AXOS MATTER?

XYLANASES DIFFER IN THEIR ABILITY TO BREAK DOWN ARABINOXYLANS

- Different xylanases produce different AXOS profiles
- Xylose (X1) can have a negative effect on animal performance and energy utilisation^[Shuttle et al 1991] while X3-X7 can have a positive effect

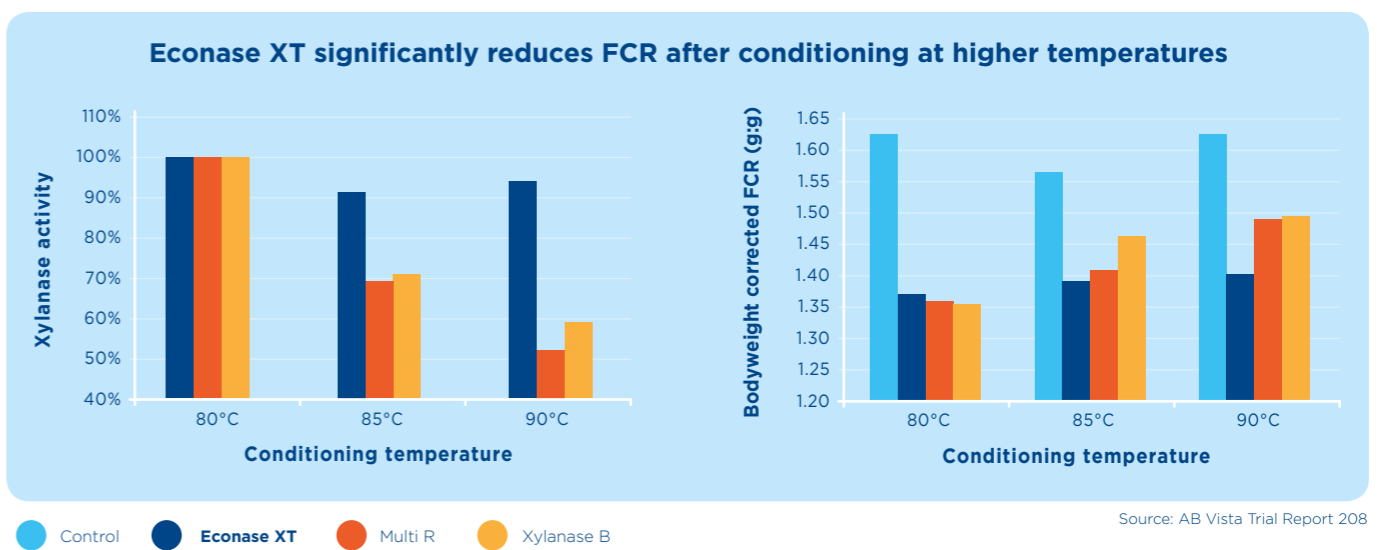
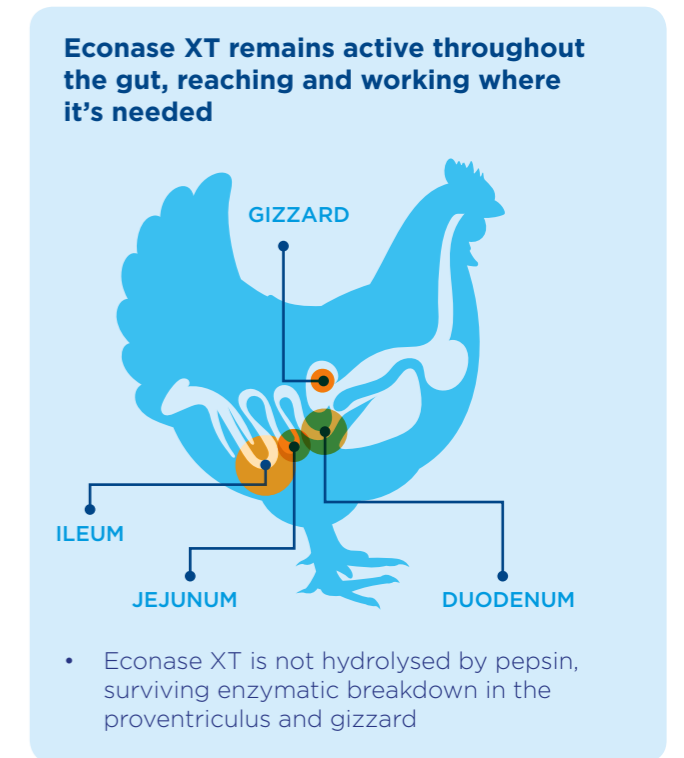
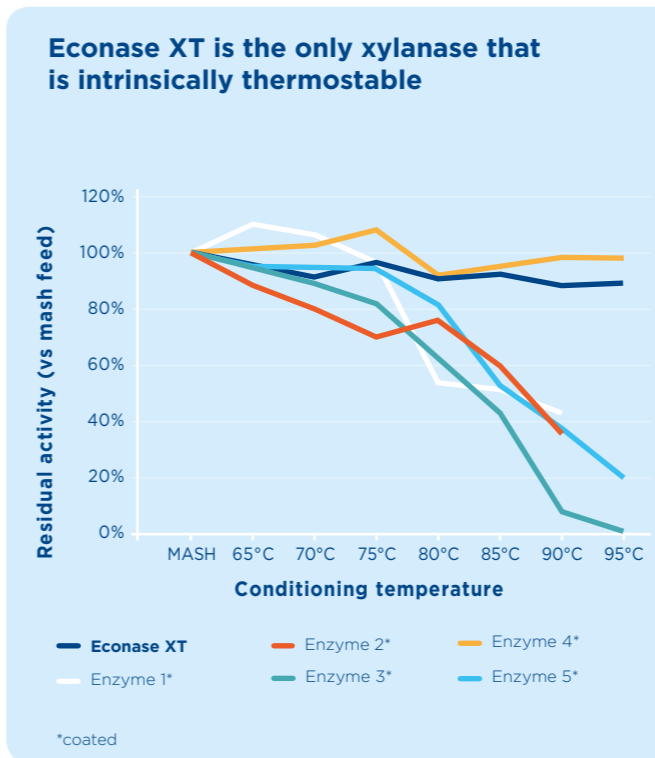


Econase XT has been shown to produce beneficial types of AXOS for optimal performance

THE ONLY XYLANASE THAT IS INTRINSICALLY THERMOSTABLE

ECONASE XT SURVIVES THE RIGOURS OF THE FEED CONDITIONING PROCESS

- Pelleting conditions vary dramatically between feed mills and within the same feed mill
- Selecting a xylanase that can withstand the rigours of the feed conditioning process is critical to ensure consistent performance improvements



Econase XT was shown to give the largest benefit in FCR vs competitor products

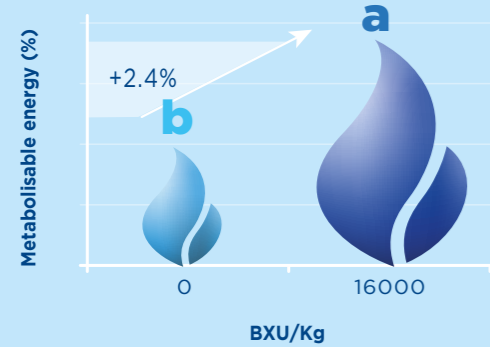
ECONASE XT IS PROVEN TO BOOST POULTRY PERFORMANCE

Econase XT is the optimal xylanase for maximising feed utilisation.

FIVE PROVEN BENEFITS IN POULTRY

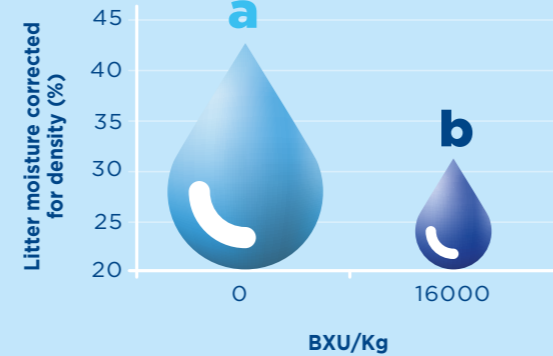
1. Reduces FCR in broiler corn and wheat diets

2. Increases the metabolisable energy of broiler diets



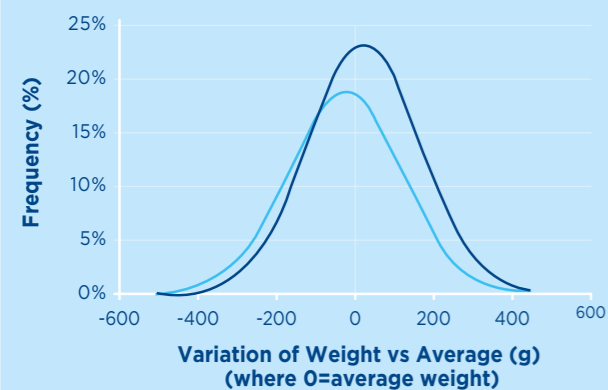
Source: AB Vista
Note: Data from a total of 8 trials

3. Reduces litter moisture by up to 15%



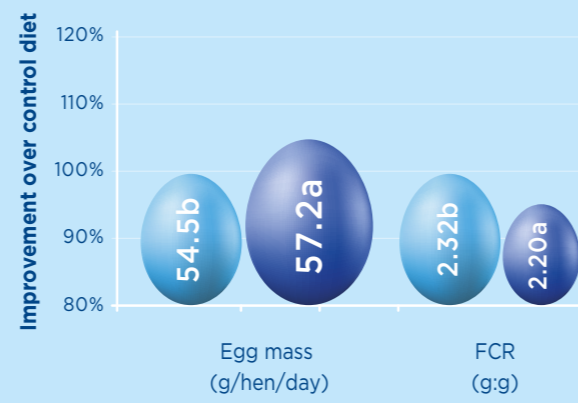
Source: AB Vista

4. Increases broiler uniformity



Source: AB Vista

5. Improves performance in laying hens



Source: AB Vista Trial Report 406
Numbers represent absolute values for performance variables measured

BXU: birch xylan units

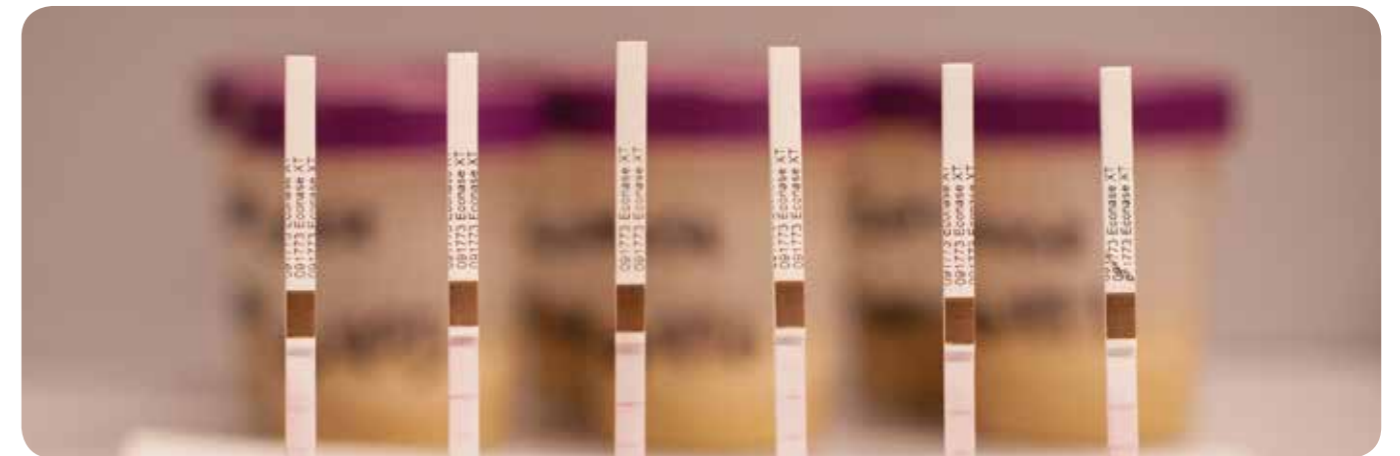
ECONASE XT IS SIMPLE TO MEASURE AND DETECT

Analysis of Econase XT is easy and can be measured across a range of feeds.

This helps to ensure that the full benefits of using Econase XT are realised.

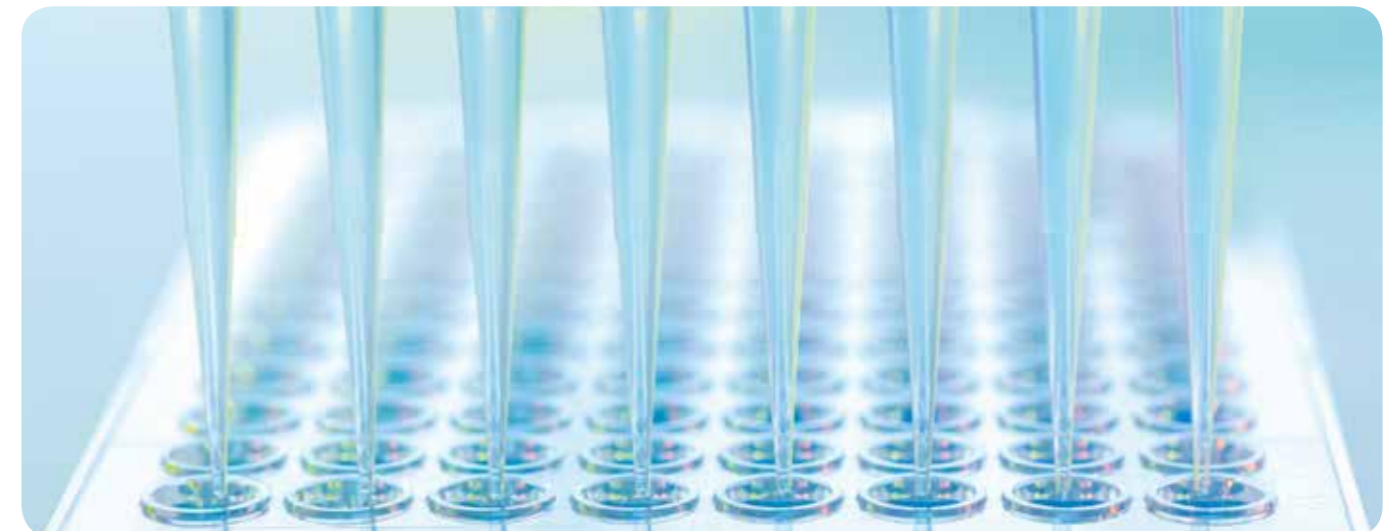
QUICKSTIX

- A qualitative test that detects the presence of Econase XT in feed
- Reliable confirmation in the feed mill within 5 minutes
- No lab expertise required
- Only the active enzyme is detected

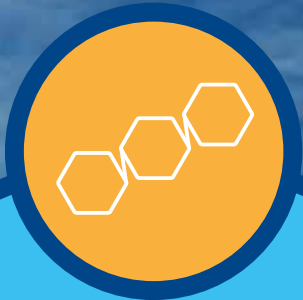


QUANTIPLATE

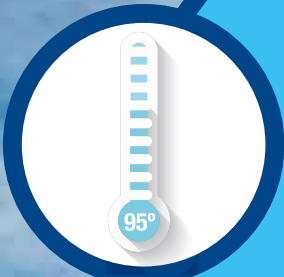
- A quantitative test that measures the activity of Econase XT in feed
- Quick and easy to conduct, reliable results within 4 hours
- Lab equipment required
- Only the active enzyme is detected



Optimal NSP breakdown to deliver
FCR and cost reduction



The only
intrinsically
thermostable
xylanase
up to 95°C



MAXIMISE DIETARY ENERGY UTILISATION WITH ECONASE XT



Effective across
a wide range of
feed ingredients

Proven results
in poultry
and swine



Easily detected
and measured
in feed

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