

EnzaPro consistently limits the growth of pathogenic microorganisms and is comparable or superior to antibiotics and anti-coccidials

# EnzaPro Significantly Reduces Pathogens Titers in the Gut and the Environment

#### **EnzaPro**<sup>™</sup>

Reduces Intestinal Pathogen Load

E. Coli Reduction



Reduction C. Perfringens Reduction

E. Tenella Reduction



#### **EnzaPro**<sup>™</sup>

Reduces Environmental Pathogen Load



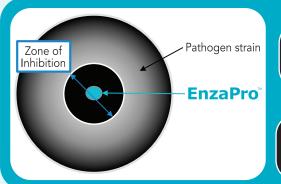
**Reduction** 



C. Perfingens (Log 10 CFU/g)



**Reduction** 





#### Zone of Inhibition

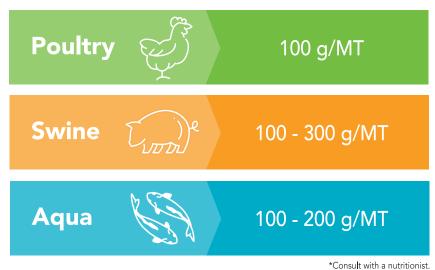
EnzaPro consistently limits the growth of pathogenic microorganisms and is comparable or superior to tibiotics and anti-coccidials.

## Specifications



- **Xylanase activity**  $\geq$  100,000 XU/g Endo-1,4- $\beta$  xylanase
- Multiple Bacillus species ≥ 1 x 10<sup>9</sup> CFU/q
- Thermostable Components
- Suitable for use in all diet types

## Application Strategy Through All Phases of Growth\*



# Storage/Shelf Life

A minimum shelf life of 24 months from date of manufacture when product is stored in original sealed bag under dry, cool conditions.

Recommended storage of < 30°C. Keep opened bags rolled down tightly to maintain freshness.



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An optimized combination of premium xylanase and multi-strain DFMs uniquely designed to support productivity and wellness



# **EnzaPro**<sup>™</sup>



#### A Novel Combination

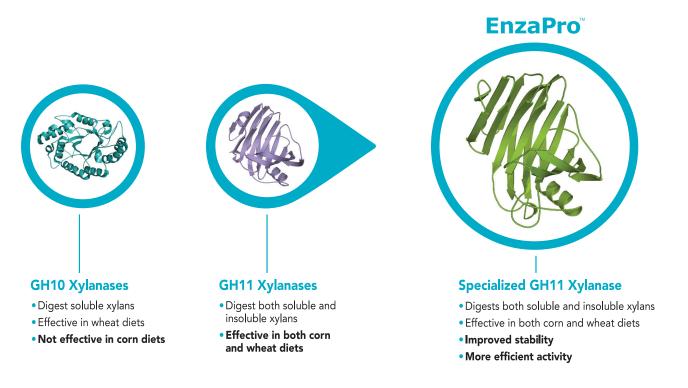
# **Multi-strain Direct-fed High-activity** Microbials (DFMs) Xylanase **IMPROVES IMPROVES** Nutrient DigestikNutrient AbsorptPrebiotic Effect Gut Function • Gut Protection **REDUCES REDUCES** Digesta ViscosityIngredient Quality Variability Pathogen Load Contamination **IMPROVES**

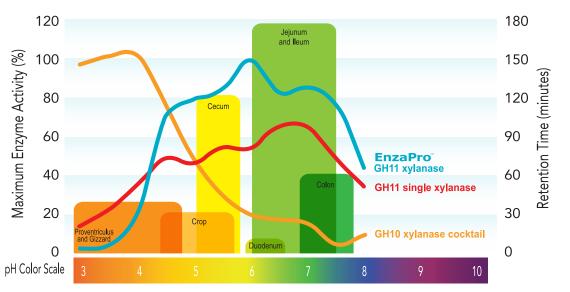


- Optimum Performance
- Healthy Gut
- Feed Costs Savings

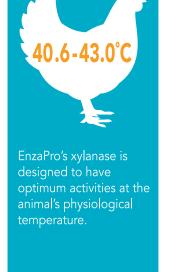
## Premium Xylanase Optimized for Strong Activity

The premium GH11 xylanase present in EnzaPro is a high-efficiency, thermostable, unique xylanase that targets both soluble and insoluble xylans found in grain feed ingredients.





EnzaPro's premium GH11 xylanase generates the highest enzyme activity with the longest retention time under optimum pH.





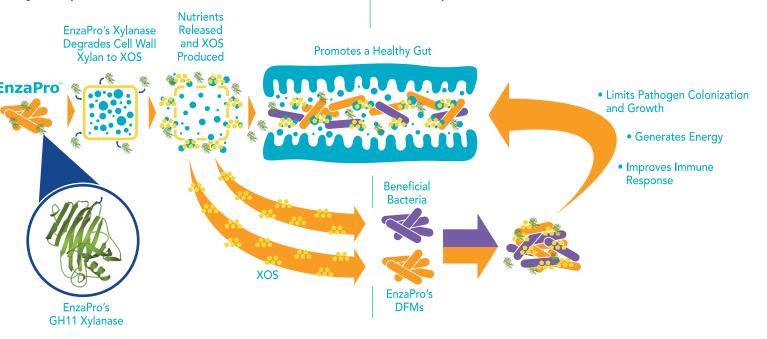
### Uniquely Selected for Prebiotic and Probiotic Actions

#### Prebiotic action

The xylo-oligosaccharides (XOS) produced by the action of EnzaPro's specialized GH11 xylanase promote growth of beneficial bacteria in the gastrointestinal tract and results in more available energy and overall improved digestibility of nutrients.

#### Probiotic action

EnzaPro's multi-strain DFMs also benefit from the prebiotic effect of xylanase and can exclude and inhibit pathogens in the gut, promote a strong and rapid immune response in the animal, and protect the animal's ability to absorb and utilize nutrients.



# Significantly Improves Livability and Uniformity

EnzaPro addresses dietary and disease challenges to significantly improve production-scale livability and reduce animal-to-animal, flock-to-flock and site-to-site variation.



From 15.9% to 10.5%

