

# strong benefits

## WHY HOSTAZYM® X ?



The continuous improvements seen in daily broiler production when applying Hostazym® X xylanase complex, can simply be attributed to its 5 core strengths :

1. **Ideal fibre affinity**
2. **Cereal consistency**
3. **Desirable nutrient release**
4. **Exceptional robustness**
5. **Proven feed efficiency**



Hostazym X50 microGranulate	
Production strain origin	Trichoderma longibrachiatum (IMI SD 135) / not genetically modified
Primary enzyme activity	Endo-1, 4-β xylanase activity (EC 3.2.1.8.) Minimum activity 30,000 EPU/g
Secondary enzyme activities	Cellulase, hemicellulase, α-amylase, protease
Type of diet	Rich in all types of cereals and cereal by-products
Recommended inclusion (EU/NZ label) Broilers, pigs, piglets	50 g/tonne (= 1500 EPU per kg feed)
Recommended inclusion (EU/NZ label) Turkeys for fattening, & layers	35 g/tonne (=1050 EPU per kg feed)
Packaging	20 kg bags
Shelf Life	24 months

## conclusion

### HOSTAZYM® X, THE PREFERRED NSP ENZYME FOR BROILERS !



Hostazym® X unique characteristics of heat tolerance, high stability, perfect dosing and homogenization combined with its feed-matching complex, has proven in any fibre type of poultry diet to give:

- **Improved growth PERFORMANCE** and FCR
- **FLEXIBLE** feed formulation (savings up to 8 €/mT)
- **Higher intestinal HEALTH** status

**Hostazym® X**  
The preferred NSP enzyme



Let's talk about  
**Hostazym® X**  
in broilers



Broilers need efficient ways to extract more nutrients out of the feed and to maintain intestinal health. Hostazym® X is an unique digestive enzyme complex, specifically developed to meet these crucial objectives in everyday poultry diet formulations. Hostazym® X provides a consistent solution for overcoming the anti-nutritional effects of many NSP fibre fractions (Non-Starch Polysaccharides), present inside conventional and more challenging poultry diets.



## unique

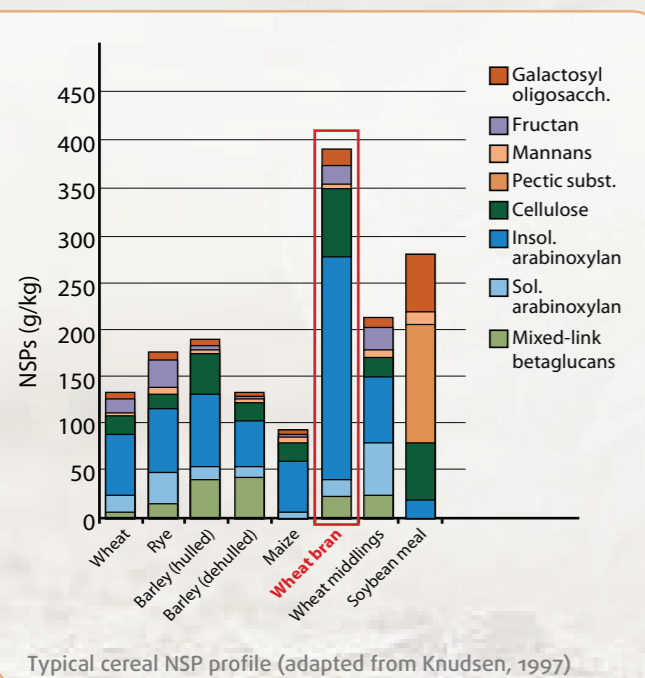
### UNIQUE PRODUCT CHARACTERISTICS

#### 1. SPECIFIC PRODUCTION PROCESS

Hostazym® X is produced in an unique way, being the only EU-registered feed enzyme (Nr. 421617) from **Surface Fermentation (SF)**. It explains why all of its enzymes have :

- A high, natural heat-tolerance
- No true need for a protective product coating

#### 2. INTRINSIC MATCH WITH FEEDSTUFFS' NATURE



Hostazym® X is synthesized on **feed-grade wheat bran**. This highly fibrous substrate ( $\pm 40\%$  NSP) makes Hostazym® X a valuable enzyme tool with :

- Unique and broad-spectrum activities
- Consistent effects in everyday feed formulation

#### 3. EXCEPTIONAL DOSAGE FORM

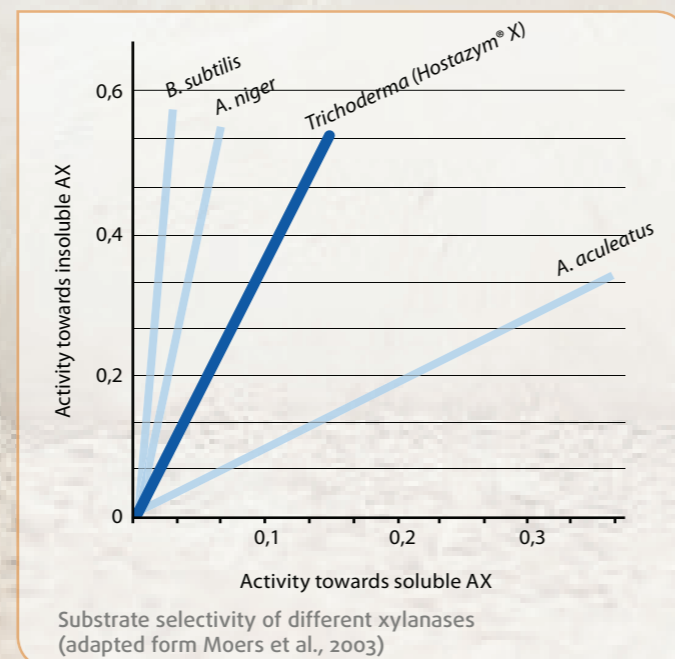
After the unique enzyme production, Hostazym® X is formulated via a patented **micro-granulation procedure** (patent WO/97 42837), delivering a final product with:

- Prolonged shelf life & 85°C pellet stability
- Homogenous distribution in premix & feed
- Excellent enzyme release in the broiler gut

#### 4. BOOSTING ZOOTECHNICAL PERFORMANCE

The enzyme complex inside Hostazym® X is produced by the non-GMO *Trichoderma*, enabling a **balanced degradation** of both insoluble and soluble xylans (AX), therefore resulting in:

- Less nutrient caging & strongly reduced gut viscosity
- Improved nutrient utilization & less intestinal disorders
- Prebiotic sugar end products in the lower gut



### TECHNICAL PERFORMANCE

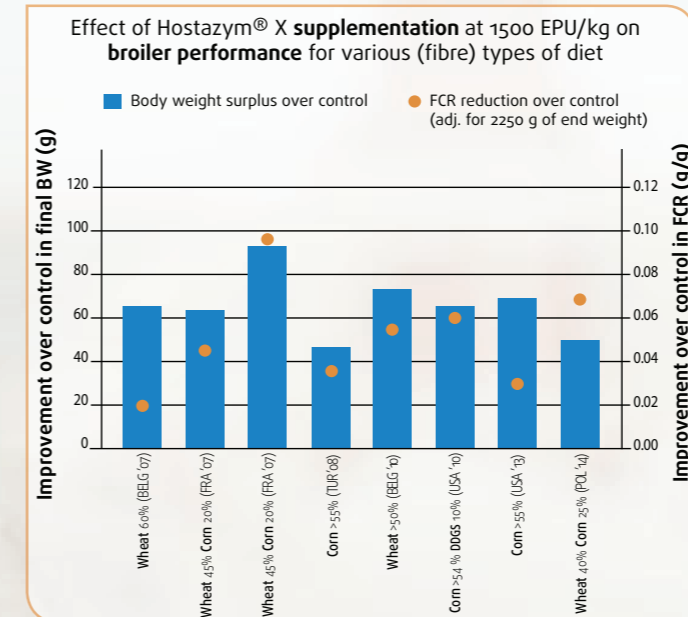
#### SUPPLEMENTAL USE OF HOSTAZYM® X (ON TOP)

In past years many efficacy trials in broilers have been performed, to demonstrate the effect of Hostazym® X supplementation on **zootechnical results**.

##### SET-UP:

- Hostazym® X xylanase complex added on top
- Broilers slaughtered at 36 to 49 days (2 - 3.5 kg end weight)
- Corn, wheat and corn/wheat diets (varying NSP profiles)

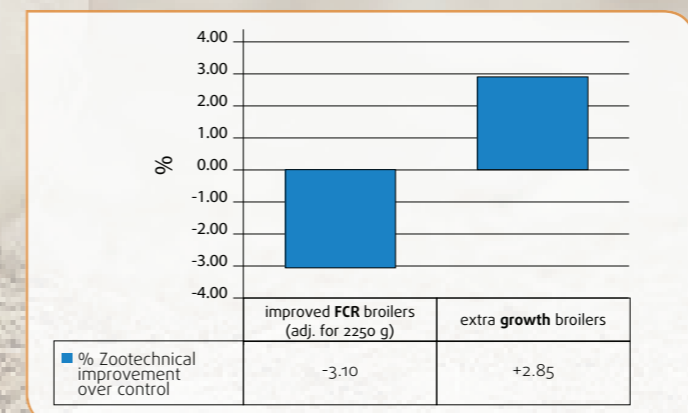
##### RESULTS:



##### CONCLUSIONS:

- Adding Hostazym® X at recommended dosage boosts overall broiler performance, on many different cereal substrates.

All above trials combined, gives the following multi-diet outcome in **zootechnical performance for broilers** supplemented with Hostazym® X at 1500 EPU/kg of feed.



#### Daily practice: Hostazym® X applied in broiler feed gives

- + 66 grams higher end Body Weight
- - 0.053 lower Feed Conversion Rate
- above 100 kcal ME uplift per kg of feed

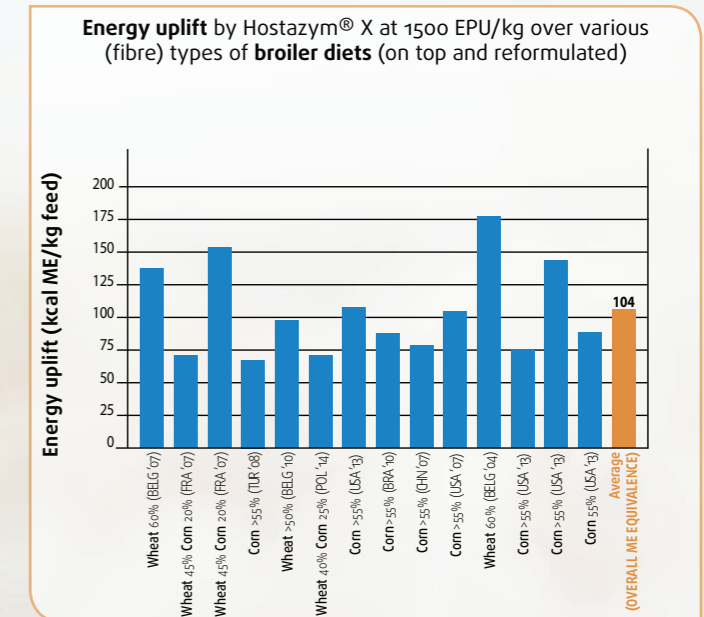
#### ENERGY EQUIVALENCE OF HOSTAZYM® X

Considering the energy levels fed and the technical performance in multiple efficacy trials (on top or reform.), the metabolisable energy (ME) equivalence of Hostazym® X can be calculated.

##### SET-UP:

- Supplemented and energy-reduced (reformulated) feed
- Broilers slaughtered at 36 to 49 days (2 - 3.5 kg end weight)
- Corn, wheat and corn/wheat diets (varying NSP profiles)

##### RESULTS:



##### CONCLUSIONS:

- Addition of Hostazym® X at recommended dosage (on top or reformulated) corresponds to a ME equivalence above 100 kcal.

Integration of all conducted trials gives the following **energy upgrade of broiler diets** provided with Hostazym® X (either on top or formulated into the ration) at 1500 EPU/kg.

