

# Huvezym<sup>®</sup> neXo



We get the most  
out of fibre

 HUYEPHARMA<sup>®</sup>



AgriHealth

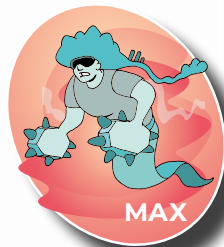
## Meet your new nutrition team



**ISA**, A highly efficient 1,4-beta-xylanase, with the power of arabinoxylan degradation inside the animals' gastrointestinal tract in the most efficient way:

- it breaks down **I**nsoluble arabinoxylan, making more nutrients available to the animal
- it breaks down **S**oluble arabinoxylan, keeping gut viscosity under control
- with the break down of soluble arabinoxylan, **AXOS** are formed and will be fermented by intestinal microflora into useful short-chain fatty acids.

When the fibre structure gets too complex, **ISA** uses the help of two team mates, **MAX** and **ACE**.

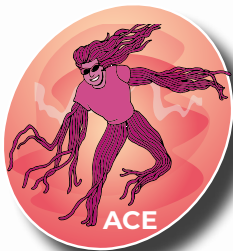


**MAX** is a 1,4-beta-glucanase, also known as cellulase. **MAX** assists **ISA** by breaking down the cellulose, around which the arabinoxylan likes to twist.

**ACE** is a xyloglucan-specific-1,4-beta-glucanase (xyloglucanase), that breaks down the xyloglucan located between the cellulose fibrils.

Together we are your team for efficient fibre degradation, assuring

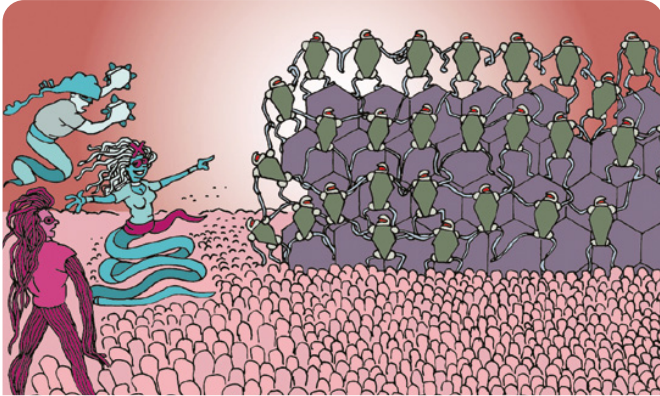
- **B**etter animal performance
- **E**fficient control of gut viscosity
- **L**ower feed costs without compromising animal performance



Together we are

**Huvezym<sup>®</sup> neXo**

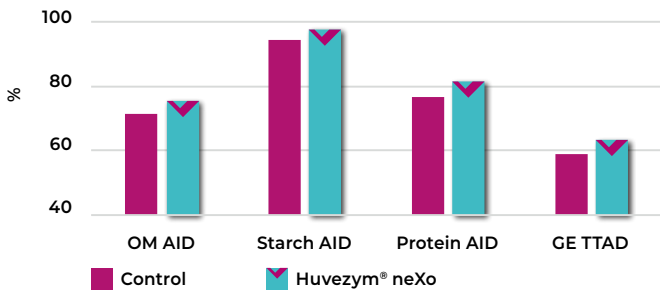
## Huvezym® neXo, scientifically demonstrated triple mode of action



Hydrolysis of **INSOLUBLE** fibre.

### Release of nutrients

Partial degradation of insoluble non-starch polysaccharide (NSP), results in the release of nutrients trapped in the fibre network of feed raw materials. This makes more nutrients available for the animal.



Improved Nutrient digestibility\*

OM: Organic matter; GE: Gross Energy; AID: Apparent ileal digestibility; TTAD: Total tract apparent digestibility.

\* p-value for all parameters <0.05  
Average results of all digestibility trials with broilers using different diets of complex fibre.

More nutrients available to the animal will

- ▶ contribute to better performance and
- ▶ allow the use of alternative, fibre-rich raw materials
- ▶ reduce feed costs



Hydrolysis of **SOLUBLE** fibre.

### Viscosity reduction

Degradation of soluble NSP helps to control digesta viscosity, contributing to better transit of digesta and improving nutrient absorption.

### AXOS formation

The products of NSP degradation (AXOS) may be used by microflora and fermented into SCFA. Positive microflora shifts will contribute to a healthier gut and indirectly to better performance.

Treatment*	Ileum (µmol/g)			Ceca (µmol/g)		
	C <sub>2</sub> H <sub>3</sub> O <sub>2</sub>	C <sub>3</sub> H <sub>6</sub> O <sub>3</sub>	C <sub>4</sub> H <sub>6</sub> O <sub>4</sub>	C <sub>2</sub> H <sub>3</sub> O <sub>2</sub>	C <sub>4</sub> H <sub>8</sub> O <sub>2</sub>	Total SCFA
Control	2.52	129.42	3.30	172.66	53.12	239.7
Huvezym® neXo	9.47	250.20	7.59	250.94	73.08	338.0
p-value	<0.05	0.10	<0.05	<0.05	<0.05	<0.05

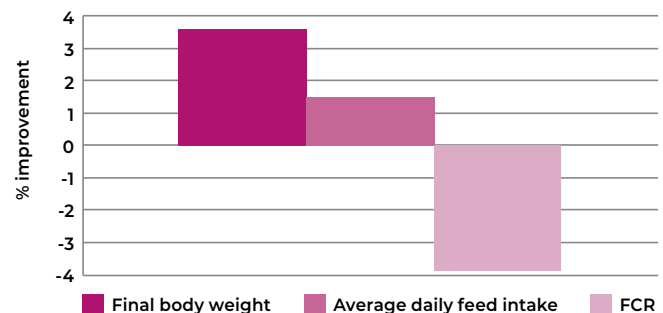
\* Broilers fed wheat based diet with or without Huvezym® neXo for 8 days (from d 20-28). Samples from GIT segments taken on day 28 for SCFA analysis.

SCFAs:

- ▶ provide additional energy for the animal
- ▶ promote gut health

## Huvezym® neXo, tailored for optimal degradation of complex fibre

- ▶ A unique enzymatic complex highly efficient in degrading complex fibre due to the “team work” of 3 key enzymes: **xylanase, cellulase and xyloglucanase**
- ▶ A nutritional tool that takes the most out of fibre, consistently:
  - Improving animal performance and production efficiency
  - Promoting a healthier gastrointestinal tract



Average performance response compared to the Control (all trials - broilers)

# Huvezym<sup>®</sup> neXo

## Product description

- ▶ Enzymatic complex developed for optimal degradation of complex fibre. Formulated in coated or liquid forms to be used as a digestibility enhancer in monogastric species when fed diets rich in non-starch polysaccharides.

## Target species

- ▶ All poultry species for fattening, reared for breeding and laying and ornamental birds.
- ▶ Sows of all *Suidae* species

## Recommended dose

- ▶ 1500 EPU - 100 CU - 100 XGU per kg of feed

## EU-registration number

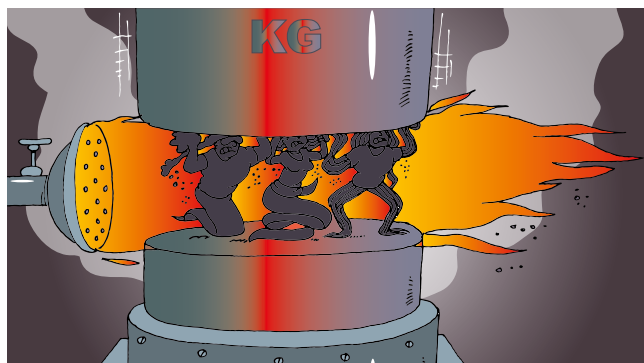
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## Enzyme activities (Huvezym neXo 50)

- ▶ Endo-1,4-beta-xylanase.....30 000 EPU/g
- ▶ Endo-1,4-beta-glucanase (cellulase)..... 2 000 CU/g
- ▶ Xyloglucan-specific endo-1,4-beta-glucanase.....2 000 XGU/g

## Formulation

- ▶ Huvezym<sup>®</sup> neXo 50 (coated)



- ▶ Coated formulations are stable to processing conditions up to 85 °C.



**Get the most out of fibre, assuring efficient animal production and a healthier gut**

