



# *Sienzyme PE*

Sienzyme PE is a well-balanced and stable blend of phytase and digestive enzymes, each with a beneficial effect on different targets within the feed.

The product is a concentrated multi-purpose additive, specially formulated to improve overall digestibility of the non-available phosphorus and indigestible fiber fraction of feedstuffs (for monogastric). The combination of different exogenous enzymes delivers nutritionists a complete tool to better cope with the non-digestible fractions inside the animal's gut and supplies extra metabolizable energy. These biocatalysts simply boost total feed efficiency and nutrient availability, far above the endogenous capabilities of the monogastric animal itself.

Generally, phosphorus and inositol in phytate form are not bioavailable to non-ruminant animals because these animals lack the enzyme phytase required to hydrolyze the inositol-phosphate linkages.

In most commercial agriculture, non-ruminant livestock, such as Poultry, swine fish are fed mainly grains, such as maize, legumes, and soybeans. Because phytate from these grains and beans is unavailable for absorption, the unabsorbed phytate passes through the gastrointestinal tract, elevating the amount of phosphorus in the manure and increasing the feed formulation cost.

## **BIOACTIVE ENZYMES**

- 6-Phytase- EC 3.1.3.26
- Endo-1,4- xylanase- EC 3.2.1.8
- Endo-1,3(4)- glucanase- EC 3.2.1.6
- Endo-1,4- glucanase - EC 3.2.1.4 (or cellulase)

Multiple grain sources and fiber-rich, grain by-products contain several indigestible fractions, the so-called Non-Starch Polysaccharides (NSP's). NSP's are structural fiber networks inside plant cell walls, that are known to substantially reduce total energy digestibility of monogastric diets. Furthermore, when these NSP-substrates get solubilized, viscosity increases so that less animal-own enzymes will reach and digest the feed particles. Therefore, nutrient availability and feed transit are clearly affected in lower feed consumption and suboptimal litter quality.

Sienzyme PE is free-flowing micro-granular powder for easy dosing and uniform mixing and can be easily incorporated into the premix or final feed. They complement with the limited amount of the animal's own digestive enzymes, to reach a more complete digestion. Each of them is well-coated, pH-stable, and heat resistant.



## SPECIFICATIONS

- Solubility: not soluble in water
- pH: neutral
- Moisture K.F.: < 10%
- Granulometry: min. 98% < 0.8 mm

## SUPPLEMENTATION GUIDELINE

Dosage recommendations for Sienzyme PE: 0.2 - 0.25 kg/MT of compound feed.

## PACKAGING

Sienzyme PE is packed in 20 or 25 kg net multi-layer paper bags with strong, impermeable inner lining against moisture and oxidation.

## STORAGE CONDITIONS

Please keep in tightly closed original bag, and store in a dark and dry place at room temperature. Sienzyme Pro is a stable product under above conditions for a period of 12 months from manufacturing date. After this period, quality should be checked before actual use. Possible variation in color is not correlated with the intrinsic activity and thus performance.

## WITHDRAWAL PERIOD

Not applicable.

## MSDS

Available on request.

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