

Natuphos® E 10000 2XG Combi L

Chemical name(s) of active ingredient

Myo-inositol-hexakisphosphate beta-phosphohydrolase (EC 3.1.3.26), produced by *Aspergillus niger*; Endo-1,4-beta-xylanase (EC 3.2.1.8), produced by *Aspergillus niger*; Endo-1,4-beta-glucanase (EC 3.2.1.4), produced by *Aspergillus niger*

PRD

30854513

Article

50861207	125 kg plastic drum
50861206	1000 kg bulk container

Specification

Content	
- Phytase	at least 10,000 FTU/g
- Xylanase	at least 11,200 TXU/g
- Glucanase	at least 5,000 TGU/g

Other chemical and physical data

Formulation	liquid
Density	1.11 – 1.13 g/cm ³ (range 0 – 20 °C)
Viscosity	approx. 14 mPa·s (at 0 °C) approx. 9 mPa·s (at 10 °C) approx. 7 mPa·s (at 20 °C) approx. 5 mPa·s (at 30 °C)
Solubility	infinitely miscible with water

Stability and Storage

The product should be stored in a cool and dry place (below 20 °C). In unopened original packaging, the product can be kept for 18 months.

Application

The use of Natuphos® E 10000 2XG Combi L is recommended for pelleted feed, especially if pelleting temperature rises above 85 °C (185 °F) and/or in case of long-term conditioning. Product must be sprayed on cooled and sieved pellets, using an appropriate application system. Natuphos® E 10000 2XG Combi L has been developed especially for wheat, rye, barley, and corn containing poultry and pig diets. Because phytase, xylanase and glucanase are mixed in the same product, only one liquid dosing system is required to dose all enzyme activities.

Definition of activity

One unit of phytase activity (FTU) is defined as the amount of enzyme, which liberates 1 micromole of inorganic phosphorus per minute from a solution of 0.0051 mol/l sodium phytate at pH 5.5 and 37 °C.

One thermostable endo-xylanase unit (TXU) is defined as the amount of enzyme which liberates 5 micromole reducing sugars, measured as xylose equivalents per minute from a buffer solution containing 1 g arabinoxylan per 100 ml at pH 3.5 and 40 °C.

One thermostable endo-glucanase unit (TGU) is defined as the amount of enzyme which liberates 1 micromole reducing sugars, measured as glucose equivalents per minute from a buffer solution containing 0.714 g beta-glucan per 100 ml at pH 3.5 and 40 °C.

Dosage recommendations

For pigs, poultry and various aquaculture species 250/280/125 - 1000/1120/500 FTU/TXU/TGU per kg* of complete compound feed.

* Especially with regard to minimum dose rate to be used and animal species approved national regulations may vary and need to be considered prior to products use. In case of doubts or need for more detailed recommendations please contact your local BASF representative.

Note

Enzymes are biologically active substances. The product should be processed with all due care and attention to occupational hygiene following the instructions in the safety data sheet.

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