

Natuphos® 5000 Combi L



Active ingredients

Myo-inositol-hexakisphosphate
beta-phosphohydrolase (EC 3.1.3.8), 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-No.

30487393

Articles

56508006	125 kg plastic drum
56508059	1000 kg bulk container

Specification

Content

- Phytase	min. 5,000 FTU/g
- Xylanase	min. 5,600 TXU/g
- Glucanase	min. 2,500 TGU/g

For further information see separate document:
"Standard Specification (not for regulatory
purposes)" available via BASF's WorldAccount:
<https://worldaccount.basf.com> (registered access).

Other chemical and physical data

Formulation	liquid
Density	1.16 – 1.20 g/cm ³ (range 0 – 20 °C)
Viscosity	approx. 44 mPa·s (at 0 °C) approx. 16 mPa·s (at 20 °C) approx. 13 mPa·s (at 25 °C)
Solubility	infinitely miscible with water

Stability

The product should be stored in a cool and dry
place (below 20 °C). In unopened original pack-
aging, the product can be kept for 12 months.

Application

The use of Natuphos 5000 Combi L is recom-
mended for pelleted feed, especially if the pelleting
temperature rises above 85 °C. Product must
be sprayed on cooled and sieved pellets using
an appropriate application system. Natuphos
5000 Combi L has been developed especially
for cereal-containing poultry diets. Because
phytase, xylanase and glucanase are mixed in
the same product, only one liquid dosing system
is required to dose all enzyme activities.
Natuphos 5000 Combi L is also well suited for
feed producers using cereals in their diets only
during certain parts of the year. Natuphos 5000
Combi L can thus replace liquid phytase using
the same dosing equipment, as the dosage of
Natuphos 5000 L and Natuphos 5000 Combi L
is identical.

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 recommendation

Chickens for fattening, ducks for fattening:
min. 75 g/t of complete feed.

Laying hens, turkeys for fattening, piglets weaned
up to approx. 35 kg:
min. 100 g/t of complete feed.

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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