

Natuphos[®] 10,000 G 10,000 FTU/g Phytase Granular Formulation

Technical Specifications

Helping Make
Animal Nutrition
Better[™]


The Chemical Company

Product Description

Natuphos[®] 10,000G contains a guaranteed minimum of 10,000 Phytase Units (FTU) per gram (4,535,920 FTU/lb).

Chemical characteristics

Chemical name: Mio-inositolhexaphosphate phosphohydrolase (3.1 3.8)

CAS: 37288-11-2

Bulk density: 0.65 g/cm³

Particle size: minimum 95% <0.75mm

Loss on drying (3 hr/105°C): maximum 8%

Appearance

White, free-flowing granules.

Definition of content

One unit of phytase (FTU) is defined as the quantity of enzyme which liberates 1 micromol of inorganic phosphorus per minute from 0.0051 MOL/L of sodium phytate at pH 5.5 and 37°C.

Ingredients

Starch, Dried Aspergillus Niger Fermentation Extract, Zinc Sulfate.

Analytical method

The analytical method is based on the liberation of inorganic phosphorus from sodium phytate. Incubation is carried out at pH 5.5 and 37°C for 30 to 60 minutes. The liberated phosphorus is analyzed by the molybdenum blue method and quantitated by photometry at 415 nm. A phytase standard of known activity is treated in the same way. The measured increase in absorption of the product sample is compared with that for the standard (relative method).

Storage and Stability

Phytase, a high molecular weight protein, is sensitive to the presence of moisture and high temperature, as are other enzymes. Therefore, Natuphos[®] should be kept in a cool, dry room and the container closed when not in use.

If Natuphos[®] granular is added before pelleting, the pelleting temperature should not exceed 80°C (176°F). If the pelleting temperature exceeds 85°C (185°F), the exclusive use of Natuphos[®] liquid (Natuphos[®] L) is recommended. Pellets

should be sprayed in a low speed screw or a spray drum down stream from the cooler. Natuphos[®] L can be diluted with water immediately prior to use to provide a better pellet coverage.

Packaging

20 kg poly-lined box.

Recommended Use Level

53 – 64g / ton feed

Use

To increase the digestibility of phytin-bound phosphorus.

Important: While the information and data contained in this bulletin are presented in good faith and believed to be reliable, they do not constitute a part of our terms and conditions of sales unless specifically incorporated in our Order Acknowledgement. NOTHING HEREIN SHALL BE DEEMED TO CONSTITUTE A WARRANTY, EXPRESS OR IMPLIED, THAT SAID INFORMATION OR DATA ARE CORRECT OR THAT THE PRODUCTS DESCRIBED ARE MERCHANTABILITY OR FIT FOR A PARTICULAR PURPOSE, OR THAT SAID INFORMATION, DATA OR PRODUCTS CAN BE USED WITHOUT INFRINGING PATENTS OF THIRD PARTIES.

© BASF Corporation, TS 9906,
2nd rev. ed.

BASF Mexicana S.A. de C.V.
Departamento de Nutrición Animal
Planta Civac
Eje Norte Sur no.1
62500 Jiutepec, Mor.
Telephone (777) 3200302
Telefax (777) 320 0423

BASF Canada
80 Todd Road
Georgetown, Ontario L7G 4R7
Telephone (905) 877-6952
Telephone (800) 253-4565
Telefax (905) 877-4344

BASF Corporation
100 Campus Drive
Florham Park, New Jersey 07932
Telephone (973) 245-6423
Telephone (800) 426-8704
Telefax (973) 245-6766
www.basf.com/animalnutrition