



Aum Enzymes
India's #1 Speciality Enzyme Products

FEEDMULTIZYME

Multi-enzymes

BENIFITS

- Improves the digestibility of cereal and vegetable protein containing feeds
- Improves the digestibility of non- starch polysaccharides (NSPs)
- Break down beta-glucans, which are anti nutritional factors
- Reduces gut viscosity
- Improves absorption of nutrients
- Increases Metabolized Energy (ME) content of the diet
- Reduces sticky and wet dropping
- Improves growth and final live weight
- Improves feed conversion ratio (FCR)
- Improves egg size and quality in layers; reduces dirty eggs
- Saves cost by permitting flexible use of less expensive feed ingredients
- Eco- friendly and bio-degradable

DESCRIPTION

Feedmultizyme is a mixture of the various enzymes like xylanase, cellulase, hemicellulase, beta-glucanase, pectinase, galactomannase, phytase produced by SSF techniques from selected strains of *Trichoderma* and *Aspergillus species*. Feedmultizyme is a mixture of various enzymes to be used in feed industry. It is specially designed for improving the digestibility of feed containing cereals and vegetable proteins in poultry, pigs and other monogastric animals. Cereals such as maize, wheat, barley, oats, rye and vegetable proteins such as soybean, groundnut, peas, rapeseed, and sunflower contain broad range of polysaccharides, commonly known as non starch polysaccharides[NSPs] such as xylans, arabino-xylans, cellulose, hemicellulose, pentosans, beta-glucans and other anti-nutritive or poorly digestible constituents.

The enzymes like xylanase, cellulase, hemicellulase, pectinase, galactomannase in Feedmultizyme break down non-starch polysaccharides (NSPs) into simple compounds which the birds can digest and utilize and thus improve the digestibility of feeds, whereas beta-glucanase break down beta-glucans, which are anti-nutritional factors and thus decrease the viscosity of gut contents. This also helps in reducing sticky droppings. Feedmultizyme increases the Metabolized Energy (ME) content of the diet, as well as improves its protein and fat utilization. Feedmultizyme also degrades phytates and resultantly increases the availability of phosphorus and other nutritional components of the feed. The other side enzymes like lipase, amylase and protease in Feedmultizyme help in better utilization of feed.

PRODUCT SPECIFICATION TYPE

Form & appearance	Powder	Free flowing ,white to light brown
Parameters	Optimal range	Operational Range
Temperature	30°C-60°C	25°C -70°C
pH	4.5-7.0	2.5 - 8.5
Microbial source : fungi	<i>Trichoderma and Aspergillus species</i>	
Enzyme Types	<i>Mixture</i>	

APPLICATION & DOSAGE

There are many factors that influence usage of Feedmultizyme, such as, type of species, feed composition, ingredient and nutrient specification of feed.

The recommended dosage of Feedmultizyme is 150-250 gram per tonne [1000kg] of feed. For best result of Feedmultizyme, it is mix thoroughly in the feed.

SAFETY

The product is produced under hygienic condition and is subject to stringent quality control.

TOXICOLOGY

The product produced by GRAS microorganism and is classified as non toxic.

BIODEGRADABILITY

Product is Biodegradable

HANDLING PRECAUTION

Enzymes are proteins and inhalation of dust or aerosols may induce sensitization and may cause allergic reactions in sensitized individuals. Some enzymes may irritate the skin, eyes and mucous membranes upon prolonged contact.

REGULATORY INFORMATION:

EEC Classification

In concentration form, the liquid enzymes products are classified as “sensitizers by inhalation” under the terms of EEC directive 88/379.

STORAGE:

Enzyme products should be stored in a cool dry place. When stored below 35°C products will maintain its declared activity for at least 24 months.

PACKAGING:

Enzyme products are available in 5/10/25 Kilogram bags. Special packaging is also available on request.

TECHNICAL SERVICE:

Aum Enzymes technical service laboratory shall be pleased to provide more information covering specific applications for all products or discuss any practical problem which may occur in the industry. Technical datasheet given with each product are only given as usage guidelines, but tests should be carried out under local conditions to fix the optimum dosages for animal species.

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