

Feed Beta-Glucanase (Type H)

Cat. No. FBGG-001

Lot. No. (See product label)

Introduction

Description

Feed Beta-Glucanase (Type H) is produced by submerged liquid fermentation of *Trichoderma reesei*. The enzyme system is composed mainly of endo-beta-1,4-glucanase together with beta-1,3-glucanase. It hydrolyzes beta-glucan in plant cell walls to small-molecule oligosaccharides and glucose, reducing the anti-nutritional effects of beta-glucan in feed and supporting nutrient absorption.

Applications

Degrades beta-glucan in plant-based feed, reducing digesta viscosity and improving nutrient digestibility. Degrades plant cell wall structures, promoting release of intracellular nutrients and improving feed nutrient utilization. Oligosaccharides formed during beta-glucan degradation help improve intestinal microecology, promote beneficial bacteria, and support animal disease resistance and production performance.

Product Information

Species

Trichoderma reesei

Source

Submerged liquid fermentation

Appearance

Light yellow powder

Form

Powder

pH Stability

Relatively high activity across pH 3.0-7.0.

Optimum pH

5.5

Thermal stability

After mixing with feed and treatment at 75-90°C for 5 minutes, enzyme activity remains relatively high at 85°C. Conventional feed pelleting processes have minimal impact on performance.

Composition

Primarily endo-beta-1,4-glucanase with beta-1,3-glucanase.

Function

Hydrolyzes beta-glucan in plant cell walls to oligosaccharides and glucose, helping reduce the anti-nutritional effects of beta-glucan in feed.

Substrates

Beta-glucan in plant cell walls

Reaction

Beta-glucan hydrolysis produces small-molecule oligosaccharides and glucose.

Advantages

Relatively high activity across pH 3.0-7.0. Good stability under high-temperature feed-processing conditions. Supports nutrient release and utilization by degrading beta-glucan and plant cell wall structures.

Usage

Recommended dosage: 20 g per metric ton of complete feed. Adjust the dosage according to specific feed formulation requirements.

Storage and Shipping Information

Storage

Protect from light and store at low temperature in a dry, well-ventilated environment during transportation and storage. Keep in the original sealed packaging under cool, dry conditions.