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PRODUCT SPECIFICATIONS SHEET

Beta Mannanase 1.0

Description: Beta-Mannanase 1.0 (endo-1,4- β -mannanase) .EC 3.2.1.78. is made from a refined strain of *Trichoderma reesei* through liquid fermentation and extraction technology. This product is a sub category of hemi-cellulase, which can break the beta-1, 4 glycosidic bonds of mannan into mannan oligosaccharides. The substrates are β mannan, galactomannan and galactose.

Functions & Benefits: Reducing digesta viscosity and reduce fecal water content. Improve the utilization of protein, fat and carbohydrate by degrading plant cell wall structures. Enzymes balance micro flora in the gut and improves gut health.

Recommended Usage: Use 25g per ton of complete feedstuffs or in formulations of other enzymes or ingredients. Dilute the concentrated enzyme before use.

Activity: 100,000 HCU/gram

Unit Definition: One hemicellulase unit (HCU) is defined as that activity that will produce a relative fluidity change of 1 over a period of 5 minutes in a locust bean gum substrate under the conditions specified.

Appearance: Off-white, powder, microbial fermentation odor

Storage Conditions: Store in a cool dry area in closed original container. Keep from freezing. Protect against physical damage. Keep away from heat and flame. Product retains > 90% activity after 12 months stored at room temperature.

Danger: May cause allergy or asthma or breathing difficulties if inhaled. Avoid breathing dust/fume/gas/mist/vapors/spray. In case of inadequate ventilation, wear respiratory protection. Consult safety data sheet before handling and storing this product.

Package Sizes: 25 kg. and 50 lb. boxes

This feed is produced in a facility certified in the AFIA's Safe Feed/Safe Food Certification Program www.safefeedsafefood.org



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