



Vensa- MannZyme

β -Mannanase

Less Waste,
Higher Returns



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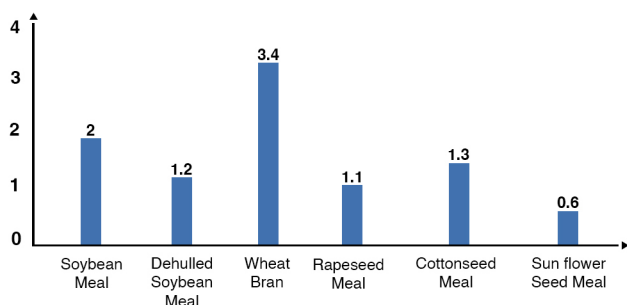
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Difficulties

WE ENCOUNTERED

β -Mannan, which widely exists in plant feed ingredients such as soybean meal, palm kernel meal and sesame meal, not only increases the viscosity of chyme in the digestive tract and reduces the digestibility of dietary nutrients, but also naturally provokes an unnecessary immune response even in small amounts and consumes up to 2%–3% of the total energy in feed meals, thereby redirecting energy away from growth and performance and further reducing the availability of nutrients for animal development.

Anti-nutritional Factors Analysis of Conventional Feed Materials (%)



β -mannanase

IMPORTANCE

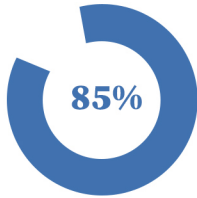
β -mannanase can hydrolyze mannan into mannose unit, which can supplement the deficiency of endogenous digestive enzymes and eliminate and degrade anti-nutritional factors in feed raw materials, thus improving feed conversion and utilization efficiency and animal growth performance.



Prevents the immune response and energy wastage
Enhanced nutrient utilization supports better growth and health

Vensa-MannZyme

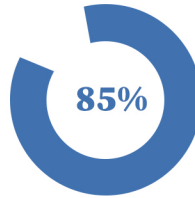
STRONG THERMOSTABILITY & PH TOLERANCE



Pelleting temperature for 85°C



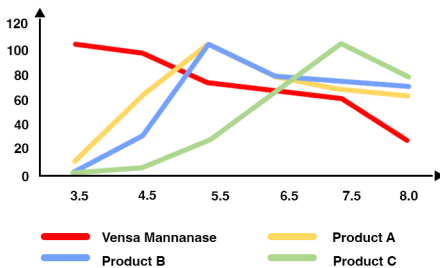
pH 3.5 for 90 min



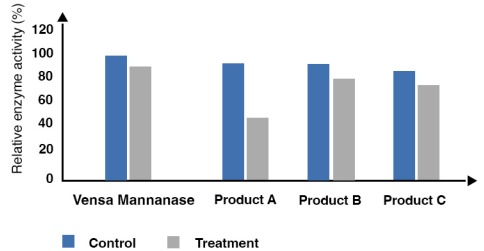
pH 6.5 for 90 min

COMPARISON OF DIFFERENT B-MANNANASE

pH Curve Comparison of Different Mannanase



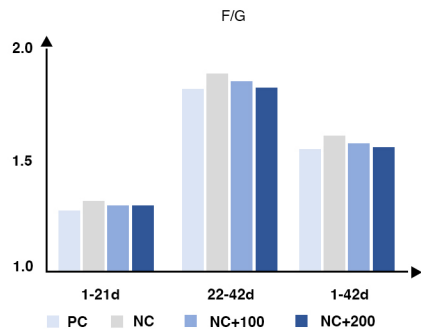
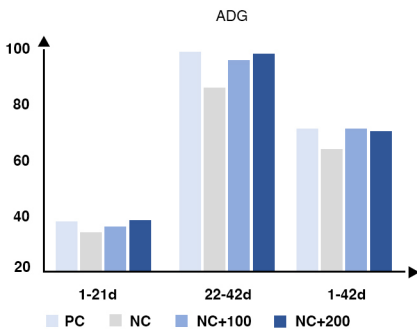
Thermostability Comparison of Different Mannanase



NOTE: The conditions of thermostability analysis: Mannan was treated with water bath at 75°C for 5min, untreated group was used as the control group.

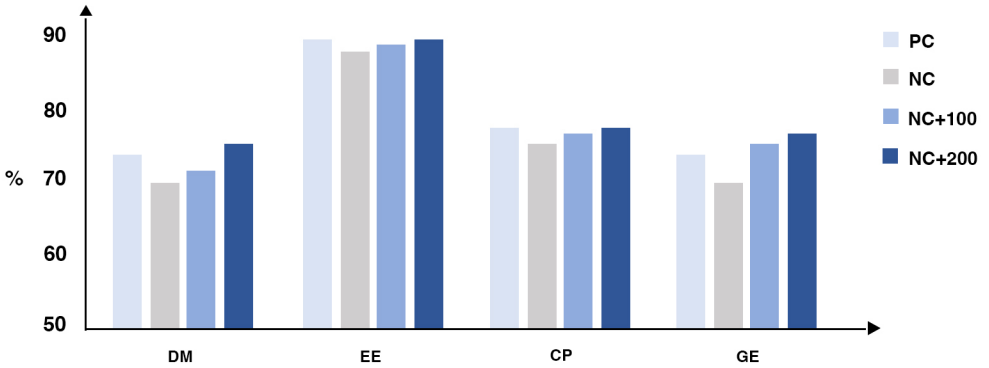
APPLICATION OF VENZA-MANNZYME

IMPROVE THE GROWTH PERFORMANCE AND NUTRIENT DIGESTIBILITY OF BROILERS



NOTE: NC=PC-50 Kcal/kg in Formula.

Nutrients digestibility



SPECIFICATION & USAGE

Name	Vensa-MannZyme
Type	Granule
Activity	20,000 U/g
Usage	100-200 g/T in complete feed.

PACKAGE & STORAGE

Package	25 kg/ bag
Shelf Life	12 Months
Storage	Store below 25°C. Avoid direct sunlight, rain exposure, high temperature and high humidity

