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TECHNICAL DATA SHEET

TDS-ENZ084-EN · REV. 02 · 2026-11-03

Bacterial Alpha-amylase Enzyme Powder

Bacterial alpha-amylase powder for animal feed; improves starch digestibility in poultry and swine diets.

SKU **ENZ084** CATEGORY **ALPHA-AMYLASE** ENZYME CLASS **EC 3.2.1.1** CAS **9000-90-2** GRADE **FEED GRADE**

Produced by submerged fermentation

Not restricted for transport

DECLARED ACTIVITY	WORKING TEMPERATURE	OPTIMUM PH	SHELF LIFE
≥3,000 u/g	**60~70°C**	**6.0**	**12 months**
as stated on the product page	no optimum stated	stable range pH 6.0~7.0	sealed, see storage below

SPECIFICATION

IDENTITY

Appearance	Powder Typical
Colour	Brown Typical
Odour	Slight fermentation odour Typical

ACTIVITY

Alpha-amylase activity	**≥3,000 u/g** Typical

WORKING WINDOW

Optimum pH	6.0 Typical
Stable pH	6.0~7.0 Typical
Temperature	60~70°C Typical

Spec = release limit, confirmed on every lot's Certificate of Analysis. **Typical** = normal product behaviour, not a release limit.

STORAGE & PACKAGING

SHELF LIFE
12 months

STORAGE
Keep sealed in a dry and cool place and avoid direct sunlight

PACK SIZE
1 kg / bag

ORDERING
Online or by e-mail; current price on the product page

APPLICATIONS

Improve starch digestibility in poultry and swine diets
Hydrolyses starch to dextrin, oligosaccharides and a small amount of glucose

Add to complete feed at the stated rate
Dose 15–30 g/MT at ≥3000 u/g or 30–60 g/MT at ≥1500 u/g

Dilute the product before use
Dilution before use is stated as required

Note the calcium dependence of the enzyme
Ca2+ improves stability and makes the enzyme more resistant to pH

DOSAGE

15–30 g/MT

per tonne of complete feed, for product at ≥3000 u/g

Substrate	**Complete feed**
Activity ≥3000 u/g	**15–30 g/MT**
Activity ≥1500 u/g	**30–60 g/MT**

Dilute the product before use.
Ca2+ improves enzyme stability and resistance to pH.

Each lot is released against its specification; the lot Certificate of Analysis reports the measured values.

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Online: enzymes.bio/product/bacterial-alpha-amylase-enzyme-powder-animal-feed-additive-enzymes

Enzyme preparations are proteins that may induce sensitization; avoid direct skin contact and consult a doctor if irritation or allergic response develops. This technical data sheet gives the product specification and typical values; it is not a batch certificate. A Certificate of Analysis for the supplied lot accompanies each shipment. Safety Data Sheet on request.

SCAN TO ORDER