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TECHNICAL DATA SHEET

TDS-ENZ331-EN · REV. 02 · 2026-11-03

Amino Acid Water-Soluble Fertilizer Enzyme Protease Blend

Protease blend that hydrolyzes plant and animal proteins into peptides and free amino acids.

SKU **ENZ331** CATEGORY **PROTEASE** FORM **LIGHT BROWN POWDER** PACK SIZE **1 KG/BAG**

Industrial grade

Not restricted for transport

WORKING TEMPERATURE	WORKING PH	SHELF LIFE	FORM
30–60 °C	**6.0–9.0**	**12 months**	**Powder**
no optimum stated	no optimum stated	sealed, see storage below	light brown powder

SPECIFICATION

IDENTITY

Product type	Protease blend for amino acid fertilizer hydrolysis Typical
Enzyme composition	Multiple proteolytic enzymes (alkaline protease + neutral protease blend) Typical

PHYSICAL

Appearance	Light brown powder Typical
Odor	Slight fermentation-like odor, no abnormal off-odor Typical

WORKING WINDOW

Effective temperature range	30–60°C Typical
Effective pH range	6.0–9.0 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 cool, dry place. Avoid heat, moisture, and direct sunlight.

PACK SIZE
1 kg/bag, sealed food-grade aluminum foil bag

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

APPLICATIONS

Hydrolyze plant meals such as soybean meal and peanut meal.
Yields peptides and free amino acids for fertilizer use.

Hydrolyze animal proteins such as fish protein and blood proteins.
Converts protein nitrogen into peptides and amino acids.

Process amino acid water-soluble and liquid fertilizers.
Improves solubility and handling of protein hydrolysates.

Upgrade fermentation-based organic nutrient solutions.
Supports fermentation-based fertilizer systems.

DOSAGE

2–10 kg per ton

per ton of raw material

Temperature	**30–60°C**
pH	**6.0–9.0**
Addition point	**During protein hydrolysis step, after hydration and pH adjustment**

Start with small-scale trials and adjust as needed.

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

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Online: enzymes.bio/product/amino-acid-water-soluble-fertilizer-enzyme-protease-blend

Enzyme preparations are proteins and may sensitise; avoid skin, eye and inhalation contact. 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