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TECHNICAL DATA SHEET

TDS-ENZ317-EN · REV. 02 · 2026-11-03

Amino Acid Water-Soluble Fertilizer Enzyme

Protease enzyme for hydrolysing plant protein into peptides and free amino acids.

SKU **ENZ317** CATEGORY **ENZYMES FOR PROTEIN HYDROLYSIS** ENZYME TYPE **PROTEASE (NEUTRAL AND ALKALINE)**

GRADE **INDUSTRIAL GRADE**

Industrial grade

Not restricted for transport

WORKING TEMPERATURE	WORKING PH	APPLICATION RATE	SHELF LIFE
30–60 °C	**6.0–9.0**	**2–10 kg per metric ton**	**12 months**
no optimum stated	no optimum stated	of raw plant protein materials	sealed, see storage below

SPECIFICATION

IDENTITY	
Form	Light beige to yellow free-flowing powder Typical
Enzyme system	Neutral and alkaline proteases Typical
PHYSICAL	
Moisture	**≤ 8.0%** Typical
Sensory	Mild fermentation aroma; no off-odor; no clumping Typical
WORKING WINDOW	
Temperature range	30–60 °C Typical
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
Sealed container in a cool, dry, ventilated place; avoid humidity and elevated temperatures; reseal after opening

PACK SIZE
1 kg per bag, sealed aluminum foil bag

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

APPLICATIONS

Hydrolyse soybean, peanut, rapeseed or cottonseed meal
Converts macromolecular proteins into absorbable small peptides and free amino acids.

Produce amino acid water-soluble fertilizers
Gives higher amino acid content, lower viscosity and improved clarity.

Formulate plant-derived organic fertilizers
Supports stable hydrolysates compatible with humic acids, trace elements and microbial additives.

Manufacture agricultural biostimulants and organic nutrient solutions
Supports production of amino acid concentrates from protein-rich by-products.

DOSAGE

2–10 kg per metric ton

per metric ton of raw plant protein materials

Substrate	**Raw plant protein materials**
Selection basis	**Desired degree of hydrolysis, substrate type and processing conditions**

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

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