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TECHNICAL DATA SHEET

TDS-ENZ345-EN · REV. 02 · 2026-11-03

Bio Organic Enzyme Preparation

Cellulase, protease and lipase solid powder for soil, fertilizer and crop programs.

SKU **ENZ345** CATEGORY **SOIL & CROP ENZYMES** GRADE **INDUSTRIAL GRADE** FORM **SOLID POWDER**

ENZYME COMPONENTS **CELLULASE, PROTEASE, LIPASE**

Industrial grade · Produced by submerged fermentation · Not restricted for transport

SHELF LIFE	FORM	FERTILIZER ADDITIVE DOSE	PACK SIZE
12 months	**Solid powder**	**1–3 kg per 1 ton of fertilizer**	**1 kg/bag**
sealed, see storage below	off-white to light-yellow	independent use 10–30 g per mu	sealed aluminum foil bag

SPECIFICATION

IDENTITY

Product name	Bio Organic Enzyme Preparation Typical
Enzyme components	**Cellulase, Protease, Lipase** Typical

PHYSICAL

Appearance	Off-white to light-yellow solid powder Typical
Fineness (40-mesh standard sieve pass rate)	**≥ 80%** Typical
Physical characteristics	Slight fermentation odor; no off-odor; no caking; no moisture absorption/deliquescence Typical

PURITY AND HYGIENE

Loss on drying	**≤ 8.0%** Typical

FORMULATION COMPATIBILITY

Compatible systems	Amino-acid water-soluble fertilizers, organic water-soluble fertilizers, solid organic fertilizers, compound fertilizers, compound microbial fertilizers, microbial agents 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
Not stated

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

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

APPLICATIONS

Blend into fertilizers as an additive
Supports nutrient availability in granular or powdered fertilizer programs.

Apply by spraying or drip irrigation
Allows independent use in fertigation or foliar programs.

Break down soil proteins and cellulose
Converts large-molecule organic matter into smaller forms crops absorb more readily.

Accelerate organic matter mineralization
Supports nutrient transformation, soil activity and soil nutrient availability.

DOSAGE

1–3 kg per 1 ton of fertilizer

as a fertilizer additive

Fertilizer additive	**1–3 kg per 1 ton of fertilizer**
Used independently (spraying / drip irrigation)	**10–30 g per mu**

Ensure even blending when used as a fertilizer additive.
For spraying or drip irrigation, dissolve and apply within the recommended rate range.

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

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Online: enzymes.bio/product/industrial-grade-bio-organic-enzyme-preparation

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