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TECHNICAL DATA SHEET

TDS-ENZ243-EN · REV. 02 · 2026-11-03

Acid Protease Powder 100000u/g

Yellow-brown acid protease powder declared at 100000u/g for fermentation, food, beer, feed and fur uses.

SKU **ENZ243** CATEGORY **ACID PROTEASE** CAS **9025-49-4** GRADE **FOOD & INDUSTRIAL**

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

DECLARED ACTIVITY	FORM	SHELF LIFE	PACK SIZE
100000u/g	**Powder**	**12 months**	**1 kg / bag**
as stated in the specification	Yellow Brown Powder	sealed, see storage below	MOQ 1 kg / bag

SPECIFICATION

IDENTITY		
Active ingredient	Acid Protease	Typical
CAS No.	9025-49-4	Typical
Grade	Food & Industrial	Typical

ACTIVITY		
Enzyme activity	**≥ 100000 U/g**	Spec
Antimicrobial activity	**Not detected**	Spec
Test method	HPLC	Typical

PHYSICAL		
Loss on drying	≤ 8.0 %	Spec
Appearance	Yellow Brown Powder	Typical

PURITY AND HYGIENE		
Total arsenic (as As)	≤ 3.0 mg/kg	Spec
Lead (Pb)	≤ 5.0 mg/kg	Spec
Total plate count	≤ 5.0×10⁴ CFU/g	Spec
Coliforms	≤ 30 CFU/g	Spec

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
Store in a cool and dry place, away from strong light and heat.

PACK SIZE
1 kg / bag

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

APPLICATIONS

Improve liquor yield by 0.25% and raise fermentation speed in starch-based alcohol production
Higher alcohol yield and faster fermentation

Increase amino acid content in soy sauce production
More amino acids in the soy sauce

Block diacetyl formation and shorten beer maturity
Shorter beer maturity period

Modify starch in bread, cake and sausage production
Improved flavor and quality

Accelerate proteolysis in feed
Improved feed utilization

DOSAGE

Determine by trial

no application rate stated on the product page

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

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Online: enzymes.bio/product/acid-protease-powder-100000u-g-acid-protease-enzyme-powder-cas-9025-49-4-yellow-brown-powder-enzyme-preparations

Handle with care, avoid inhalation and direct contact with skin, and use personal protective equipment as required. 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