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TECHNICAL DATA SHEET

TDS-ENZ166-EN · REV. 02 · 2026-11-03

Aminopeptidase Enzyme 5000u/g

Exopeptidase that splits amino acids from the N-terminal of peptide chains, used for protein hydrolysate debittering.

SKU **ENZ166** CATEGORY **FOOD GRADE ENZYMES** EINECS-NO **3.4.11** CAS **9031-94-1** GRADE **FOOD GRADE**

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

DECLARED ACTIVITY	OPTIMUM TEMPERATURE	OPTIMUM PH	SHELF LIFE
5000u/g	**50°C-60°C**	**8.0-13.0**	**12 months**
as stated in the product title	working range 30°C-70°C	working range pH 3.0-14.0	sealed, see storage below

SPECIFICATION

IDENTITY	
CAS number	9031-94-1 Typical
Appearance	Powder Typical
ACTIVITY	
Declared activity	**5000u/g** Typical
Optimum temperature	50°C-60°C Typical
Optimum pH	8.0-13.0 Typical
WORKING WINDOW	
Activity temperature	30°C-70°C Typical
Activity pH	3.0-14.0 Typical
PHYSICAL	
Particle size (%<40 mesh)	≥80 Typical
Loss on drying	≤8.0 % Typical
PURITY AND HYGIENE	
Lead	≤5.0 mg/kg Typical
Arsenic	≤3.0 mg/kg Typical
Total viable count	≤50000 CFU/mL Typical
Salmonella (25mL)	Not Detected 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
25kg/drum or bag

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

APPLICATIONS

Debittering protein hydrolysate
Removes terminal amino acids, changing peptide taste and functionality.

Thorough hydrolysis of protein
Splits amino acids off the N-terminal of the peptide chain.

Preparing bioactive polypeptide
Yields bioactive polypeptides with altered properties.

Combining with endopeptidase
Often used together with endopeptidase for hydrolysis.

DOSAGE

0.01-0.2 kg/t DS

per tonne of dry substance (DS)

Optimisation: **Based on each application, raw material specifications, product expectations and processing parameters**

Begin the test with a convenient volume.

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

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Online: enzymes.bio/product/aminopeptidase-enzyme-5000u-g-cas-9031-94-1

Enzyme preparations are proteins that may induce sensitization; direct skin contact should be avoided. 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