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TECHNICAL DATA SHEET

TDS-ENZ140-EN · REV. 02 · 2026-11-03

Acid Protease Enzyme Powder For Protein Cleaning

Acid protease powder that hydrolyses protein under acid conditions.

SKU **ENZ140** CATEGORY **ACID PROTEASE** CAS **9025-49-4** EINECS **232-642-4** GRADE **FOOD GRADE**

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

OPTIMUM TEMPERATURE	OPTIMUM PH	SHELF LIFE	FORM
50–60 °C	**2.5–4.0**	**12 months**	**Powder**
working range 30–70 °C	working range pH 2.0–5.0	sealed, see storage below	light yellow colour

SPECIFICATION

IDENTITY	
Appearance	Powder Typical
Colour	Light yellow Typical
Odour	Normal microbial fermentation odour Typical

WORKING WINDOW	
Optimum temperature	**50–60 °C** Typical
Temperature range	30–70 °C Typical
Optimum pH	**2.5–4.0** Typical
pH range	2.0–5.0 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/g Typical
Coliform bacteria	≤30 CFU/g 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; avoid direct sunlight

PACK SIZE
1 kg / bag

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

APPLICATIONS

Hydrolyse proteins in fuel ethanol mashes
Generates free amino nitrogen for yeast growth and higher ethanol yield.

Apply in baking, sausage and soy sauce production
Improves sensory properties of bread and cake; improves sausage flavour.

Apply in brewing
Checks diacetyl formation and shortens beer maturation time.

Add to animal feed
Improves digestibility or biological value of feed; reduces production cost.

Treat leather fur
Makes fur more shiny and improves fur dyeing.

DOSAGE

0.01-0.5kg/t DS
per tonne of dry substance (DS)

Optimise the rate for each application, raw material specification 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/acid-protease-enzyme-for-protein-cleaning-cas-9025-49-4

Enzyme preparations are proteins that may induce sensitization; avoid direct skin contact and consult a doctor if irritation or allergic response develops. 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