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TECHNICAL DATA SHEET

TDS-ENZ058-EN · REV. 02 · 2026-11-03

Acid Cellulase Enzyme Liquid For Fiber Hydrolysis

Acid cellulase enzyme liquid for cellulose fiber hydrolysis, efficient at low pH for biomass conversion and textile processing.

SKU **ENZ058** CATEGORY **CELLULASE** CAS **9012-54-8** SOURCE ORGANISM **TRICHODERMA REESEI**

PRODUCTION **SUBMERGED FERMENTATION, THEN PURIFICATION AND FORMULATION**

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

DECLARED ACTIVITY	OPTIMUM TEMPERATURE	OPTIMUM PH	SHELF LIFE
200,000 u/g	**65°C-75°C**	**4.5-6.0**	**12 months**
as stated on the product page	working range 40°C-80°C	working range pH 3.0~7.5	sealed, see storage below

SPECIFICATION

IDENTITY	
Enzyme system	Endoglucanase, cellobiohydrolase and β-glucosidase components Typical

ACTIVITY	
Declared activity	**200,000 u/g** Typical

PHYSICAL	
Physical form	Liquid Typical
Colour	Light yellow to brownish yellow Typical
Odour	Normal microbial fermentation odour Typical

WORKING WINDOW	
Temperature range	40°C-80°C Typical
Optimum temperature	65°C-75°C Typical
pH range	3.0~7.5 Typical
Optimum pH	4.5-6.0 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
Keep sealed in a dry and cool place and avoid direct sunlight

PACK SIZE
1 kg / bag

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

APPLICATIONS

Degrade cellulose in animal feed
Lowers digesta viscosity and releases nutrients for better feed value

Refine, bio-polish, finish and dye textile fibres
Gives softer fabric, higher strength, less weight loss and fuzz prevention

Release starch in brewing and wine processing
Improves extraction yield and reduces wort viscosity

Treat food and plant extraction material
Improves texture, nutritional value and extraction yield of targeted components

Hydrolyse cellulose in biomass conversion and biofuel production
Converts cellulose efficiently into glucose

DOSAGE

0.1-3 kg /t DS

per tonne of dry substance (DS)

Optimisation — **Based on each application, raw material specifications, product expectation and processing parameters**

Optimise the rate for each application.
Begin trials 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-cellulase-enzyme-for-fiber-hydrolysis

Enzyme preparations are proteins that may induce sensitization; prolonged contact may cause minor irritation; avoid direct skin 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