enzymes.bio

Add enzymes. Add value.

TECHNICAL DATA SHEET

TDS-ENZ150-EN · REV. 02 · 2026-11-03

Alkaline Protease Detergent Enzyme

Alkaline protease for detergent formulations that removes starch and protein stains from laundry.

SKU **ENZ150** CATEGORY **ALKALINE PROTEASE** CAS **9014-01-1** USAGE **DETERGENT AUXILIARIES** SUPPLY **BULK**

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

DECLARED ACTIVITY	WORKING TEMPERATURE	WORKING PH	SHELF LIFE
10,000 u/g	**25°C-60°C**	**pH 6.0-10.0**	**12 months**
as stated on the product page	no optimum stated; working range 25°C-60°C	no optimum stated; working range pH 6.0-10.0	sealed, see storage below

SPECIFICATION

IDENTITY		
Enzyme type	Alkaline protease	Typical
Usage	Detergent auxiliaries	Typical
ACTIVITY		
Declared activity	**10,000 u/g**	Typical
PHYSICAL		
Form	Liquid	Typical
Appearance	Light brown	Typical
Odor	Slight fermentation smell	Typical
WORKING WINDOW		
Temperature range	**25°C-60°C**	Typical
pH range	**pH 6.0-10.0**	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

Laundry detergent formulations
Remove starch stains by breaking starch into dextrin, oligosaccharides and glucose.

Reduced-caustic washing
Reduce use of caustic soda and sodium tripolyphosphate.

Mild wash cycles
Limit fabric damage under milder washing conditions.

Industrial cleaning
Remove protein stains in laundry and industrial cleaning.

DOSAGE

0.15-0.5%

recommended application rate, in percent

Pre-mixing	**Mix with a small amount of detergent first before further processing**
Adjustment	**Optimal application rate has to be adapted to the exact cleaning purpose**

Loss of activity occurs beyond the stated temperature and pH ranges.

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

enzymes.bio · Level 1, 6 Johnsonville Road, Wellington 6037, New Zealand · **Tel (USA) +1 (507) 428-6057** · wholesale@enzymes.bio

Online: enzymes.bio/product/alkaline-protease-detergent-enzyme-protein-stains-remover-enzyme

Enzyme preparations are proteins that may induce sensitization; avoid direct skin contact and consult a doctor if irritation 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