enzymes.bio

Add enzymes. Add value.

TECHNICAL DATA SHEET

TDS-ENZ259-EN · REV. 02 · 2026-11-03

Seaweed Hydrolysis Enzyme

Solid enzyme preparation for seaweed enzymatic hydrolysis, liquefaction and extraction pre-treatment.

SKU **ENZ259** CATEGORY **BOTANICAL EXTRACTION ENZYMES** PRODUCT TYPE **SOLID ENZYME PREPARATION**

FORM **POWDER** GRADE **INDUSTRIAL GRADE**

Food grade · Industrial grade · Not restricted for transport

WORKING TEMPERATURE	WORKING PH	SHELF LIFE	APPLICATION RATE
40–60 °C	**4.0–7.0**	**12 months**	**1–3 kg per ton**
no optimum stated; working range 40–60 °C	no optimum stated; working range pH 4.0–7.0	sealed, see storage below	refine through pilot trials

SPECIFICATION

IDENTITY	
Appearance	Light yellow to brown-yellow powder Typical
Form	Solid enzyme preparation Typical
WORKING WINDOW	
Temperature range	**40–60 °C** Typical
pH range	**4.0–7.0** Typical
PHYSICAL	
Fineness (40-mesh sieve passing rate)	≥80% Typical
Loss on drying	≤8.0% Typical
Odour	Slight fermentation odor; no off-odor, no caking, no mold deterioration 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 cool, dry place away from direct sunlight; avoid prolonged exposure to heat and moisture

PACK SIZE
1 kg per bag, sealed food-grade aluminum foil bag

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

APPLICATIONS

Liquefy seaweed biomass in enzymatic hydrolysis
Reduces slurry viscosity for easier pumping, mixing and handling.

Pre-treat seaweed before extraction
Supports easier filtration and centrifugation.

Release soluble components from seaweed
Improves downstream yield for separation, extraction or fermentation.

Process seaweed biomass and by-products
Supports valorization of seaweed raw material.

DOSAGE

1–3 kg per ton

application rate per ton, as stated on the product page

Temperature	**40–60 °C**
pH	**4.0–7.0**
Hydrolysis time	**1–4 hours**
Addition	**Disperse powder in process water before addition**

Optimal rate depends on seaweed species, solids content and particle size.
Refine the rate through pilot trials under actual operating conditions.

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/seaweed-hydrolysis-enzyme

Avoid inhalation of dust and contact with eyes; wear protective gloves and a mask when handling powders. 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