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TECHNICAL DATA SHEET

TDS-ENZ087-EN · REV. 02 · 2026-11-03

Laccase Enzyme For The Treatment Of Wastewater

Laccase enzyme for wastewater treatment and environmental applications.

SKU **ENZ087** CATEGORY **WASTE & ENVIRONMENTAL TREATMENT** ENZYME CLASS **EC1.10.3.2** CAS **80498-15-3**

TYPE **ENZYME PREPARATIONS**

Not restricted for transport

Produced by submerged fermentation

DECLARED ACTIVITY	OPTIMUM TEMPERATURE	OPTIMUM PH	SHELF LIFE
10000u/g	**50°C**	**6.0**	**12 months**
as stated on the product page	working range 45°C-55°C	working range pH 5.0-8.0	sealed, see storage below

SPECIFICATION

IDENTITY AND ACTIVITY	
Enzyme class	EC1.10.3.2 Typical
CAS number	80498-15-3 Typical
Declared activity	**10000u/g** Typical
ACTIVITY	
Enzyme activity	**≥ 10,000 U/g** Spec
PHYSICAL	
Appearance	**White to light brown powder** Spec
Odour	Normal microbial fermentation odor Typical
WORKING WINDOW	
Temperature	45°C-55°C, optimum 50°C Typical
pH	5.0-8.0, optimum 6.0 Typical
MICROBIAL SAFETY	
Escherichia coli	10 CFU/g, 3 MPN/g Typical
Salmonella	Not detected/25g Typical
PURITY AND HYGIENE	
Heavy metals	< 30 mg/kg Spec
Lead (Pb)	< 5.0 mg/kg Spec
Arsenic (As)	< 3.0 mg/kg Spec
Total plate count	≤ 10,000 CFU/g Spec

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
Cool and dry place, sealed container, away from sunlight, high temperature and damp

PACK SIZE
1 kg / bag

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

APPLICATIONS

Treat food industry wastewater
Supports wastewater treatment and bioremediation

Stabilise beer
Removes residual polyphenols and excess oxygen, reducing haze risk

Stabilise fruit juice
Proposed to delay polyphenol oxidation in apple and grape juice

Clarify wine
Listed as a clarified wine application

DOSAGE

Determine by trial
no application rate stated on the product page

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

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Online: enzymes.bio/product/laccase-enzyme-for-the-treatment-of-wastewater-cas-80498-15-3

Enzyme preparations are proteins, which may induce sensitization and cause allergic-type reactions in sensitized individuals. 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