enzymes.bio

Add enzymes. Add value.

TECHNICAL DATA SHEET

TDS-ENZ083-EN · REV. 02 · 2026-11-03

Liquid Catalase Enzyme ≥400,000 U/ml

Liquid catalase that catalyses the decomposition of hydrogen peroxide into water and oxygen.

SKU **ENZ083** CATEGORY **CATALASE** CAS **9001-05-2** OTHER NAMES **CAT** GRADE **FOOD GRADE**

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

DECLARED ACTIVITY	OPTIMUM TEMPERATURE	OPTIMUM PH	SHELF LIFE
≥400,000 U/ml	**40–55 °C**	**6.0–9.0**	**12 months**
as stated on the product page	working range 20–55 °C	working range pH 5.0–10.0	sealed, see storage below

SPECIFICATION

IDENTITY		
CAS number	9001-05-2	Typical
Other names	CAT	Typical
ACTIVITY		
Enzyme activity	**≥ 400,000 U/mL**	Spec
Antibacterial activity	**Not detected**	Spec
PHYSICAL		
Appearance	Brown liquid	Typical
Odour	Slight fermentation odour	Typical
Bulk density	1.10–1.25 g/ml	Typical
Product pH (25 °C)	4.0–6.5	Typical
WORKING WINDOW		
Activity temperature	20–55 °C	Typical
Activity pH	5.0–10.0	Typical
PURITY AND HYGIENE		
Lead (Pb)	≤ 5.0 mg/kg	Spec
Total arsenic (as As)	≤ 3.0 mg/kg	Spec
Total plate count	≤ 50,000 CFU/mL	Spec
Coliforms	≤ 30 CFU/mL	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
Keep sealed in a dry and cool place and avoid direct sunlight. Slight sedimentation is acceptable.

PACK SIZE
1 kg / bag; 25kgs/drum; 30kgs/drum

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

APPLICATIONS

Remove residual hydrogen peroxide after bleaching and before dyeing textiles.
Avoids fibre damage while saving water, energy and time.

Degrade residual hydrogen peroxide after bleaching in paper making.
Decomposes peroxide left in the process.

Remove hydrogen peroxide after circuit erosion in electronics.
Saves water, energy and time.

Eliminate residual hydrogen peroxide in food bleaching, starch, milk, egg and cheese processing.
Decomposes peroxide used as bleaching agent, oxidant or disinfectant.

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.

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

Online: enzymes.bio/product/liquid-catalase-enzyme-%e2%89%a5400000-u-ml-cas9001052

Enzyme preparations are proteins and may sensitise; avoid skin, eye and inhalation 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