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TECHNICAL DATA SHEET

TDS-ENZ057-EN · REV. 02 · 2026-11-03

Catalase Enzyme Liquid 400,000 U/g

Liquid catalase that hydrolyses hydrogen peroxide into oxygen and water, used to remove residual peroxide.

SKU **ENZ057** CATEGORY **CATALASE** CAS **9001-05-2** OTHER NAMES **CAT** TYPE **ENZYME PREPARATIONS**

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

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

SPECIFICATION

ACTIVITY	
Enzyme activity	**≥ 400,000 U/mL** Spec
Antibacterial activity	**Not detected** Spec

PHYSICAL	
Appearance	Brown liquid Typical
Odour	Slight fermentation odor Typical
Bulk density	1.10-1.25 g/ml Typical
pH at 25°C	4.0-6.5 Typical

WORKING WINDOW	
Activity temperature	20°C-55°C Typical
Optimum temperature	40°C-55°C Typical
Activity pH	5.0-10.0 Typical
Optimum pH	6.0-9.0 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, away from direct sunlight; slight sedimentation is acceptable.

PACK SIZE
1 kg / bag

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

APPLICATIONS

Remove residual hydrogen peroxide after bleaching and before dyeing.
Leaves fibres undamaged; saves water, energy and time.

Degrade residual hydrogen peroxide after paper bleaching.
Decomposes residual hydrogen peroxide to water and oxygen.

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 hydrogen peroxide used as bleach, 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.

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Online: enzymes.bio/product/catalase-enzyme-hydrolysis-of-hydrogen-peroxide-by-catalase

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