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TECHNICAL DATA SHEET

TDS-ENZ004-EN · REV. 02 · 2026-11-03

Catalase 50,000 U/g

Catalase powder that decomposes hydrogen peroxide into water and oxygen in food processing.

SKU **ENZ004** CATEGORY **CATALASE** CAS **9001-05-2** GRADE **FOOD GRADE**

Food grade · Produced by submerged fermentation · Not restricted for transport · GMO-free

DECLARED ACTIVITY	FORM	MAIN COMPONENTS	SHELF LIFE
50,000 U/g	**Light yellow powder**	**Catalase, glucose**	**12 months**
as stated on the product page	soluble in water	as listed in product information	sealed, see storage below

SPECIFICATION

IDENTITY		
Product name	Catalase	Typical
CAS number	9001-05-2	Typical
ACTIVITY		
Enzyme activity	**≥ 50,000 U/g**	Spec
Antibacterial activity	**Not detected /10 g**	Spec
Catalase activity	**50,000 U/g**	Typical
PHYSICAL		
Appearance	**Light green powder**	Spec
Solubility	Soluble in water	Typical
Aqueous solution	Opaque light yellow liquid	Typical
COMPOSITION		
Main components	Catalase, glucose	Typical
PURITY AND HYGIENE		
Coliforms	< 30 CFU/g	Spec
Lead (Pb)	< 5.0 mg/kg	Spec
Arsenic (As)	< 3.0 mg/kg	Spec
Total plate count	< 50,000 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
Room temperature, dry, and protected from light

PACK SIZE
Not stated

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

APPLICATIONS

Food processing
Remove residual hydrogen peroxide left after sterilization, bleaching and processing.

Dairy processing
Remove hydrogen peroxide generated after sterilization by UV light.

Feed addition
Support detoxification in animal bodies, with relevance to liver and kidney health.

Functional food ingredients
Provide antioxidant properties together with superoxide dismutase (SOD) in food processing.

Industrial production
Remove hydrogen peroxide used as bleaching agent in paper making, textiles and environmental protection.

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-hydrogen-peroxide-decomposing-enzyme-deoxygenase-50000-u-g-food-grade-protease

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