Lactase

Lactase (beta-galactosidase) enzyme preparation · CAS 9031-11-2 · Lactase powder from Aspergillus oryzae

INDICATIVE SPECIFICATION — CONFIRMED IN WRITING AT QUOTATION

CHEMICAL FORM	FORMULA	CAS	PRIMARY ASSAY
Lactase powder from Aspergillus oryzae	Lactase (beta-galactosidase) enzyme preparation	9031-11-2	≥100,000 ALU/g
METHOD	**MINIMUM ORDER**	**LEAD TIME**	**STANDARD PACK**
Activity assay (ALU)	1 kg	1–7 days	1 kg foil pouch

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Lactase activity	≥100,000 ALU/g	Specification
Appearance	White to light brown powder	Specification
pH (1% solution)	3.0–8.0	Specification
Loss on drying	≤8.0%	Specification
Heavy metals	Pb ≤3 · As ≤2 · Cd ≤1 · Hg ≤0.1 mg/kg	Specification
Microbiology	APC ≤10,000 cfu/g · yeast and mould ≤100 cfu/g · E. coli and Salmonella absent	Specification
Particle size	≥95% through 40 mesh	Sieve
Marker set	Lactase ≥100,000 ALU/g	Identity / ratio
Appearance	White to light brown, free-flowing powder	Visual
Solubility	Soluble in water; the solution is clear to slightly hazy.	Matrix dependent
Standard packaging	1 kg foil pouch · 25 kg fiber drum	Food-grade liner

APPLICATIONS

- Enzyme blends
- Powder sticks and drink mixes

AVAILABLE FORMS

- Powder, 40 mesh
- Lower-activity dilution on request
- Granulated on request

WHAT TO CONFIRM BEFORE ORDERING

- Name the unit and the assay substrate: ALU/g is not the same as FCC LU/g or a generic lactase figure.
- Ask for activity after the process step you will use, not only on the raw powder.

- Confirm the pH and temperature window; the activity can fall outside it.
- Enzyme powders are respiratory sensitisers; the SDS and the dust controls belong in the file.

> **Indicative document.** This sheet describes the grade we can quote; it is not a batch COA and does not confirm a result for a specific lot. Final specification, contaminant limits and documentation are agreed in writing before the order. The form, hydrate state, ligand ratio and method are release parameters, not marketing descriptions.

DOCUMENTATION RELEASED WITH EACH LOT

DOCUMENT	CONTENT	SCOPE
Certificate of analysis	Assay, identity, physical parameters, contaminant panel and the release decision for the lot.	Batch-specific
Technical data sheet	Form, hydrate state, CAS, specification ranges, solubility, bulk density, storage and packing.	Product-level
Safety data sheet	Sixteen sections covering hazards, handling, storage, transport and emergency response.	Grade-specific
Allergen and GMO statements	Major allergens, gluten, animal-derived inputs and GMO status.	Batch-specific
Origin and traceability record	Manufacturing site and the link between the lot and the retained sample.	Batch-specific
Residual-solvent statement	The crystallisation system and the solvent class, where applicable.	Batch-specific

HOW TO REQUEST THIS GRADE

01 · BRIEF

Send the target specification, quantity, dosage form and destination market.

02 · COUNTER-SPEC

We confirm what can be matched and the documents available for the grade.

03 · SAMPLE & QUOTE

A sample with its own COA, followed by packing, lead time and terms in writing.

No claim is made here. This sheet does not claim a therapeutic effect, a product certification or a regulatory approval. Health claims belong to the brand that makes them and to the market that authorises them.

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