L-Lysine

$C_6H_{14}N_2O_2$ · CAS 56-87-1 · L-Lysine free base, powder

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

CHEMICAL FORM	FORMULA	CAS	PRIMARY ASSAY
L-Lysine free base, powder	$C_6H_{14}N_2O_2$	56-87-1	98.5–101.5%
METHOD	**MINIMUM ORDER**	**LEAD TIME**	**STANDARD PACK**
Titration and chiral HPLC	1 kg	1–7 days	1 kg foil pouch · 25 kg fiber drum

DESCRIPTION

L-Lysine free base specified at 98.5–101.5% by titration with specific rotation; the free base and L-lysine hydrochloride are different products with different chloride and label positions.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Assay (titration)	98.5–101.5%	As stated
Appearance	White to off-white powder	As stated
Identification	IR and titration conform	As stated
Specific rotation	+25.0° to +27.0° (c=2, 5 M HCl)	As stated
Loss on drying	≤0.5%	As stated
Heavy metals	Pb ≤3 · As ≤2 · Cd ≤1 · Hg ≤0.1 mg/kg	As stated
Microbiology	APC ≤1,000 cfu/g · yeast and mould ≤100 cfu/g · E. coli and Salmonella absent	As stated
Particle size	≥95% through 80 mesh	As stated
Marker set	L-Lysine 98.5–101.5%; rotation +25.0° to +27.0°	Identity
Solubility	Freely soluble in water; the solution is alkaline.	Matrix dependent

APPLICATIONS

- Capsules and tablets
- Powder sticks and drink mixes

AVAILABLE FORMS

- Powder, 80 mesh
- Granulated on request

PACKING

- 1 kg foil pouch
- 25 kg fiber drum

STORAGE

Store in a cool, dry, well-ventilated area, away from direct sunlight and moisture. Keep the pack closed after sampling.

The lot-specific retest date is shown on the batch COA.

DOCUMENTATION RELEASED WITH EACH LOT

- Batch-specific certificate of analysis
- Technical data sheet and safety data sheet
- Allergen, GMO, origin and residual-solvent statements
- Third-party reports on request

> **Catalog document.** This TDS describes the grade we can quote. The final specification, pack and documentation are confirmed in writing before the order. It is not a batch COA and does not report a result for a specific lot.

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