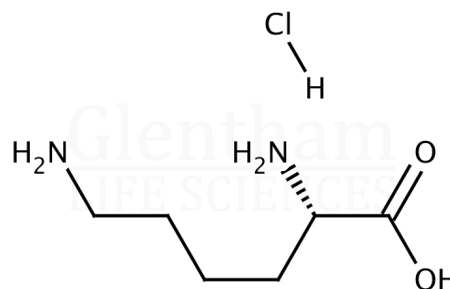


Certificate of Analysis

Product Name	L-Lysine monohydrochloride
Glentham Code	GM7532
CAS Number	657-27-2
EINECS	211-519-9
MDL Number	MFCD00064564
PubChem SID	310275930
Batch Number	970CAY
Molecular Weight	182.65
Molecular Formula	$C_6H_{14}N_2O_2 \cdot HCl$
Storage Temp.	+20°C



Property	Specification	Batch 970CAY
Physical Description	White crystalline powder or colourless crystals	Conforms
Identification	IR	Conforms
Solubility (10% in water)	Clear, colourless solution	Clear, colourless solution
pH (10% in water)	5.0 - 6.0	5.8
Specific Optical Rotation	+20.4 - +21.4 °	+21.0 °
Chloride (Cl)	19.0 - 19.6 %	19.3%
Sulphate	≤ 0.03%	Conforms
Iron (Fe)	≤ 30ppm	≤ 10ppm
Heavy Metals	≤ 15ppm	Conforms
Organic Impurities	Any Individual Impurity: ≤ 0.5%	Conforms
	Total Impurities: ≤ 2.0%	Conforms
Residue on Ignition	≤ 0.1%	Conforms
Cadmium (Cd)	≤ 1ppm	Conforms
Lead (Pb)	≤ 3ppm	Conforms
Mercury (Hg)	≤ 0.1ppm	Conforms
Arsenic (As)	≤ 1ppm	Conforms
Loss on Drying	≤ 0.4%	0.2%
Assay	99.0 - 101.0 % (dried basis)	99.5%
Pharmacopoeia Specification(s)	USP	Conforms

Specification Version	v1.1
Manufacture Date	2022-02-04
Re-Test Date	2030-06-06

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glentham.com or contact us using the details above for the current version of this document.

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