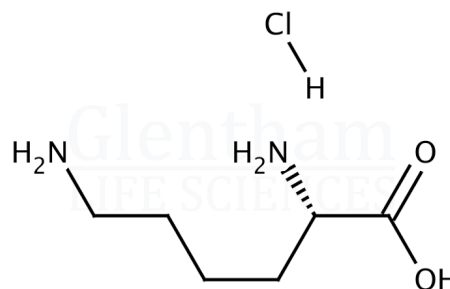


## Certificate of Analysis

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](http://www.glentham.com) or contact us using the details above for the current version of this document.

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