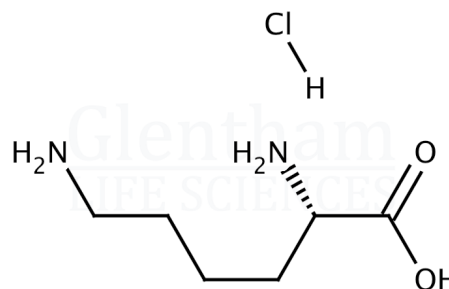


Certificate of Analysis

Product Name	L-Lysine monohydrochloride, GlenCell™, suitable for cell culture
Glentham Code	GM9011
CAS Number	657-27-2
EINECS	211-519-9
MDL Number	MFCD00064564
Batch Number	148AKZ

Molecular Weight	182.65
Molecular Formula	$C_6H_{14}N_2O_2 \cdot HCl$
Storage Temp.	+20°C



Property	Specification	Batch 148AKZ
Physical Description	White powder	White powder
Identification	IR	Conforms to standard
Solubility	Freely soluble in formic acid, sparingly soluble in water, practically insoluble in ethanol	Conforms
Solubility (10% in water)	Clear, colourless solution	Clear, colourless solution
Transmittance	≥ 98.0% (10% in water, 430nm, 10mm cell)	100.0%
Specific Optical Rotation	+20.8 - +21.5 ° (C=8, 6M HCl)	21.2°
Chloride (Cl)	19.12 - 19.51 %	19.40%
Ammonium (NH4)	≤ 0.02%	≤ 0.02%
Sulphate (SO4)	≤ 0.02%	≤ 0.02%
Iron (Fe)	≤ 10ppm	≤ 10ppm
Heavy Metals (as Pb)	≤ 10ppm	≤ 5ppm
Arsenic (As2O3)	≤ 1ppm	≤ 1ppm
Related Substances	To pass test	Conforms
Loss on Drying	≤ 0.4%	0.06%
Sulphated Ash	≤ 0.1%	0.04%
pH	5.0 - 6.0 (10% in water)	5.7
Endotoxins	≤ 6.0EU/g	≤ 3.0EU/g
Assay	98.5 - 101.0 %	100.1%
Origin	Non-animal origin	Conforms

Specification Version	v1.0
Manufacture Date	2022-10-27
Re-Test Date	2028-06-19

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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