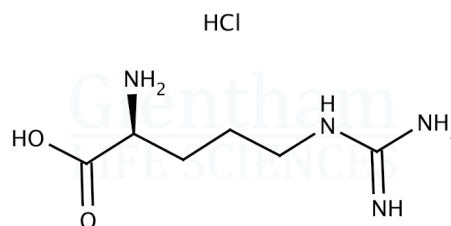


Certificate of Analysis

Product Name	L-Arginine hydrochloride, GlenCell™, suitable for cell culture
Glentham Code	GM1372
CAS Number	1119-34-2
EINECS	214-275-1
MDL Number	MFCD00064550
Batch Number	676XCQ
Molecular Weight	210.67
Molecular Formula	$C_6H_{14}N_4O_2 \cdot HCl$
Storage Temp.	+20°C



Property	Specification	Batch 676XCQ
Physical Description	White crystalline powder	White crystalline powder
Identification	IR	Conforms
Solubility	Freely soluble in water, very slightly soluble in alcohol	Conforms
Solubility (10% in water)	Clear, colourless solution	Conforms
Transmittance	≥ 98.0%	100.1%
Specific Optical Rotation	+21.5 - +23.5 °	+22.6°
Chloride (Cl)	16.6 - 17.0 %	16.7%
Ammonium (NH ₄)	≤ 0.02%	Conforms
Sulphate (SO ₄)	≤ 0.02%	Conforms
Iron (Fe)	≤ 10ppm	Conforms
Heavy Metals (as Pb)	≤ 10ppm	≤ 5ppm
Arsenic (As ₂ O ₃)	≤ 1ppm	Conforms
Related Substances	≤ 0.4%	0.0%
Residue on Ignition	≤ 0.1%	Conforms
Loss on Drying	≤ 0.2%	≤ 0.1%
pH	4.7 - 6.2	5.6
Endotoxins	≤ 6.0EU/g	≤ 3.0EU/g
Assay	99.0 - 101.0 %	100.0%
Origin	Non-animal origin	Conforms
Pharmacopoeia Specification(s)	EP, USP	Conforms

Specification Version	v1.0
Manufacture Date	2023-07-11
Re-Test Date	2032-08-23

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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