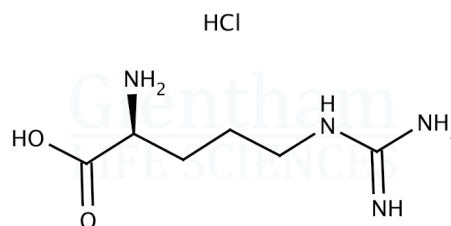


Certificate of Analysis

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	105ZRU
Molecular Weight	210.67
Molecular Formula	$C_6H_{14}N_4O_2 \cdot HCl$
Storage Temp.	+20°C



Property	Specification	Batch 105ZRU
Physical Description	White crystalline powder	White crystalline powder
Identification	IR	Conforms to standard
Solubility	Freely soluble in water, very slightly soluble in alcohol	Conforms
Solubility (10% in water)	Clear, colourless solution	Clear, colourless solution
Transmittance	≥ 98.0%	100.2%
Specific Optical Rotation	+21.5 - +23.5 °	22.6°
Chloride (Cl)	16.6 - 17.0 %	16.8%
Ammonium (NH ₄)	≤ 0.02%	≤ 0.02%
Sulphate (SO ₄)	≤ 0.02%	≤ 0.02%
Iron (Fe)	≤ 10ppm	≤ 10ppm
Heavy Metals (as Pb)	≤ 10ppm	≤ 5ppm
Arsenic (As ₂ O ₃)	≤ 1ppm	≤ 1ppm
Related Substances	≤ 0.4%	0.0%
Residue on Ignition	≤ 0.1%	0.0%
Loss on Drying	≤ 0.2%	0.04%
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	2022-06-03
Re-Test Date	2031-06-16

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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