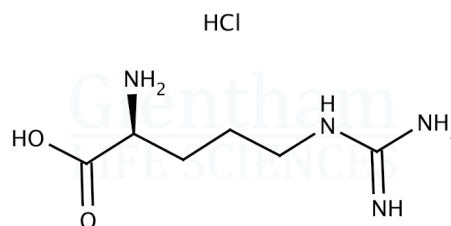


## Certificate of Analysis

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 <sub>4</sub> )	≤ 0.02%	≤ 0.02%
Sulphate (SO <sub>4</sub> )	≤ 0.02%	≤ 0.02%
Iron (Fe)	≤ 10ppm	≤ 10ppm
Heavy Metals (as Pb)	≤ 10ppm	≤ 5ppm
Arsenic (As <sub>2</sub> O <sub>3</sub> )	≤ 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](http://www.glentham.com) or contact us using the details above for the current version of this document.

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