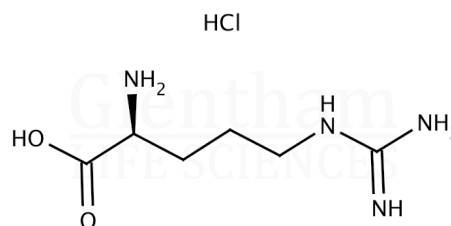


Certificate of Analysis

Product Name	L-Arginine hydrochloride, 99%, non-animal origin
Glentham Code	GM1323
CAS Number	1119-34-2
EINECS	214-275-1
Batch Number	459VNC
Molecular Weight	210.67
Molecular Formula	$C_6H_{14}N_4O_2 \cdot HCl$
Storage Temp.	+20°C



Property	Specification	Batch 459VNC
Physical Description	White or almost white crystalline powder or colourless crystals	White crystalline powder
Solubility (5% in water)	Clear, colourless solution	Clear, colourless solution
pH (5% in water)	4.7 - 6.2	5.6
Specific Optical Rotation ($[\alpha]_{20/D}$)	+21.0 - +23.5 °	+22.6°
Residue on Ignition	≤ 0.1%	0.0%
Sulphate (SO ₄)	≤ 0.02%	Conforms
Ammonium (NH ₄)	≤ 0.02%	Conforms
Loss on Drying	≤ 0.5%	0.04%
Assay	≥ 99.0%	100.0%

Specification Version	v1.0
Manufacture Date	2022-06-03
Re-Test Date	2030-06-09

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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