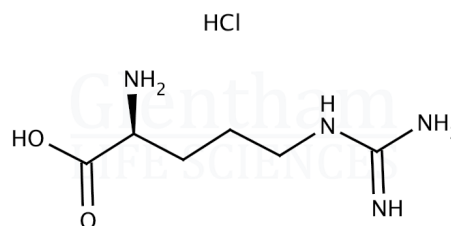


## Certificate of Analysis

Product Name	L-Arginine hydrochloride, Ph. Eur., USP grade
Glentham Code	GM0108
CAS Number	1119-34-2
EINECS	214-275-1
MDL Number	MFCD00064550
Batch Number	298OCO
Molecular Weight	210.67
Molecular Formula	$C_6H_{14}N_4O_2 \cdot HCl$
Storage Temp.	+20°C



Property	Specification	Batch 298OCO
Physical Description	White or almost white crystalline powder or colourless crystals	White crystalline powder
Identification	A, B, C, D, E to pass tests	Conforms
Solubility (5% in water)	Clear, colourless to faint yellow solution	Clear, colourless solution
Specific Optical Rotation ( $[\alpha]_{20/D}$ )	+21.0 - +23.5 ° (c=8, 6N HCl)	+22.6°
Sulfate	≤ 300ppm	Conforms
Ammonium	≤ 200ppm	Conforms
Heavy Metals	≤ 10ppm	Conforms
Loss on Drying	≤ 0.5% (105°C)	0.02%
Assay (Titration)	98.5 - 101.0 %	100.3%
Pharmacopoeia Specification(s)	Ph. Eur., USP	Conforms to Ph. Eur., USP

Specification Version	v1.0
Manufacture Date	2021-01-10
Re-Test Date	2030-03-21

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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