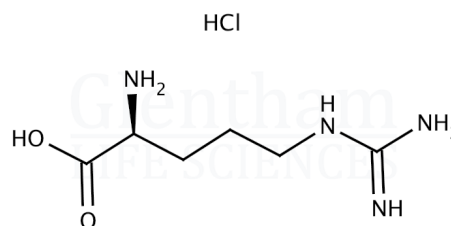


Certificate of Analysis

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 tp 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 or contact us using the details above for the current version of this document.

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