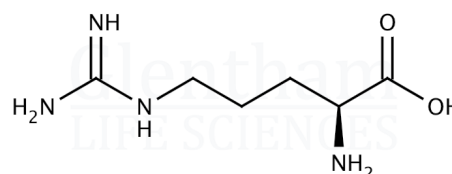


Certificate of Analysis

Product Name L-Arginine
Glentham Code GM7438
CAS Number 74-79-3
EINECS 200-811-1
MDL Number MFCD00002635
PubChem SID 310267012
Batch Number 552EZB

Molecular Weight 174.20
Molecular Formula $C_6H_{14}N_4O_2$
Storage Temp. +20°C



Property	Specification	Batch 552EZB
Physical Description	White or almost white crystalline powder	White crystalline powder
Identification	According to EP, USP, AJI	Conforms
Solubility (5% in water)	Clear, colourless solution	Clear, colourless solution
Specific Optical Rotation	EP: 25.5 - 28.5 °, USP: 26.3 - 27.7 °, AJI: 26.9+27.2° - 27.9 °	
pH	10.5 - 12.0	11.5
Iron (Fe)	≤ 10ppm	< 10ppm
Heavy Metals (as Pb)	≤ 10ppm	< 10ppm
Lead (Pb)	≤ 3ppm	< 3ppm
Cadmium (Cd)	≤ 1ppm	< 1ppm
Mercury (Hg)	≤ 0.1ppm	< 0.1ppm
Arsenic (As ₂ O ₃)	≤ 1ppm	< 1ppm
Ninhydrin-positive substances	≤ 0.5% (according to EP)	Conforms
Ammonium (NH ₄)	≤ 0.02%	< 0.02%
Chloride (Cl)	≤ 0.02%	< 0.02%
Sulphate (SO ₄)	≤ 0.02%	< 0.02%
Residue on Ignition	≤ 0.1%	0.03%
Loss on Drying	≤ 0.5%	0.2%
Other Amino Acids	Not detected	Conforms
Assay	99.0 - 101.0 % (dried basis)	100.1%
Pharmacopoeia Specification(s)	EP, USP, AJI	Conforms

Specification Version v1.0
Manufacture Date 2022-11-30
Re-Test Date 2032-07-19

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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