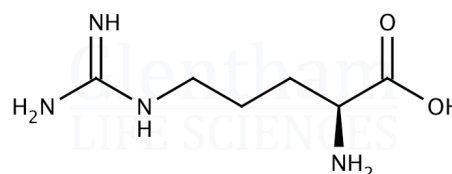


## Certificate of Analysis

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 <sub>6</sub> H <sub>14</sub> N <sub>4</sub> O <sub>2</sub>
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 <sub>2</sub> O <sub>3</sub> )	≤ 1ppm	< 1ppm
Ninhydrin-positive substances	≤ 0.5% (according to EP)	Conforms
Ammonium (NH <sub>4</sub> )	≤ 0.02%	< 0.02%
Chloride (Cl)	≤ 0.02%	< 0.02%
Sulphate (SO <sub>4</sub> )	≤ 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](http://www.glentham.com) or contact us using the details above for the current version of this document.

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