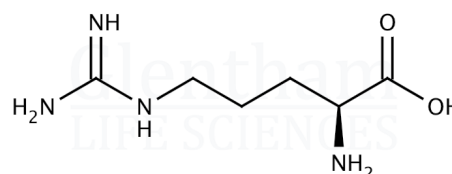


## Certificate of Analysis

Product Name	L-Arginine
Glentham Code	GM7438
CAS Number	74-79-3
EINECS	200-811-1
MDL Number	MFCD00002635
PubChem SID	310267012
Batch Number	497MAB



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 497MAB
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	Conforms
Specific Optical Rotation	EP: 25.5 - 28.5 °, USP: 26.3 - 27.7 °, AJI: 26.9+27.0° - 27.9 °	
pH	10.5 - 12.0	11.2
Iron (Fe)	≤ 10ppm	Conforms
Heavy Metals (as Pb)	≤ 10ppm	≤ 5ppm
Lead (Pb)	≤ 3ppm	≤ 0.5 ppm
Cadmium (Cd)	≤ 1ppm	≤ 0.5ppm
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%	Conforms
Chloride (Cl)	≤ 0.02%	Conforms
Sulphate (SO <sub>4</sub> )	≤ 0.02%	Conforms
Residue on Ignition	≤ 0.1%	0.05%
Loss on Drying	≤ 0.5%	0.4%
Other Amino Acids	Not detected	Conforms
Assay	99.0 - 101.0 % (dried basis)	99.2%
Pharmacopoeia Specification(s)	EP, USP, AJI	Conforms

Specification Version	v1.0
Manufacture Date	2022-01-18
Re-Test Date	2031-01-13

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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