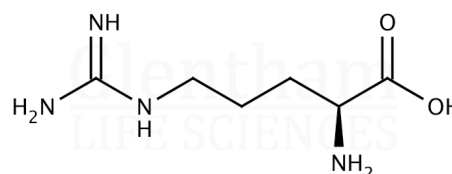


Certificate of Analysis

Product Name	L-Arginine, GlenCell™, suitable for cell culture
Glentham Code	GM1092
CAS Number	74-79-3
EINECS	200-811-1
MDL Number	MFCD00002635
Batch Number	560FNW

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



Property	Specification	Batch 560FNW
Physical Description	White crystalline powder	White crystalline powder
Identification	IR	Conforms
Solubility	Freely soluble in water and in formic acid, practically insoluble in ethanol	Conforms
Solubility (10% in water)	Clear, colourless solution	Clear, colourless solution
Transmittance	≥ 98.0% (10% in water, 430nm, 10mm cell)	99.9%
Specific Optical Rotation	+26.9 - +27.9 °	+27.2°
Chloride (Cl)	≤ 0.02%	Conforms
Ammonium (NH4)	≤ 0.02%	Conforms
Sulphate (SO4)	≤ 0.02%	Conforms
Iron (Fe)	≤ 10ppm	Conforms
Heavy Metals (as Pb)	≤ 10ppm	≤ 5ppm
Arsenic (As2O3)	≤ 1ppm	Conforms
Any Unspecified Impurity	≤ 0.2%	0.0%
Total Impurities	≤ 2.0%	0.0%
Residue on Ignition	≤ 0.1%	0.01%
Loss on Drying	≤ 0.3%	0.02%
pH (10% in water)	10.5 - 12.0	11.1
Endotoxins	≤ 6.0EU/g	≤ 3.0EU/g
Assay	98.5 - 101.0 % (dried basis)	100.1%
Origin	Non-animal origin	Conforms

Specification Version	v1.0
Manufacture Date	2022-06-16
Re-Test Date	2030-11-10

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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