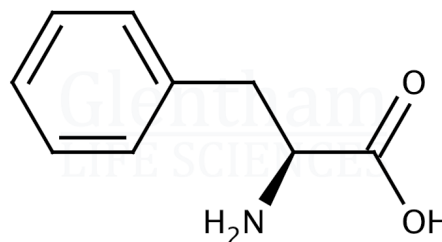


## Certificate of Analysis

Product Name	L-Phenylalanine, GlenCell™, suitable for cell culture
Glentham Code	GM7895
CAS Number	63-91-2
EINECS	200-568-1
MDL Number	MFCD00064227
Batch Number	386IFU

Molecular Weight	165.19
Molecular Formula	C <sub>9</sub> H <sub>9</sub> NO <sub>2</sub>
Storage Temp.	+20°C



Property	Specification	Batch 386IFU
Physical Description	White crystals or crystalline powder	White crystalline powder
Identification	IR	Conforms
Solubility	Freely soluble in formic acid, sparingly soluble in water, practically insoluble in ethanol	Conforms
Solubility (5% in water)	Clear, colourless solution	Clear, colourless solution
Transmittance	≥ 97.0% (5% in water, 430nm, 10mm cell)	99.9%
Specific Optical Rotation	-33.5 - -35.0 ° (C=2, H <sub>2</sub> O)	-34.3 °
Chloride (Cl)	≤ 0.02%	Conforms
Ammonium (NH <sub>4</sub> )	≤ 0.02%	Conforms
Sulphate (SO <sub>4</sub> )	≤ 0.02%	Conforms
Iron (Fe)	≤ 10ppm	Conforms
Heavy Metals (as Pb)	≤ 10ppm	≤ 5ppm
Arsenic (As <sub>2</sub> O <sub>3</sub> )	≤ 1ppm	Conforms
Related Substances	To pass test	Conforms
Loss on Drying	≤ 0.2%	0.0%
Sulphated Ash	≤ 0.1%	0.01%
pH	5.4 - 6.0 (1% in water)	5.7
Endotoxins	≤ 6EU/g	≤ 3EU/g
Assay	98.5 - 101.0 %	99.8%
Origin	Non-animal origin	Conforms
Pharmacopoeia Specification(s)	EP, USP	Conforms

Specification Version	v1.0
Manufacture Date	2021-02-17
Re-Test Date	2029-12-15

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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