

Glentham Life Sciences Ltd Unit 5 Leafield Way Corsham SN13 9SW United Kingdom

t: +44 (0) 1225 667 798 f: +44 (0) 2033 978 909 e: info@glentham.com w: www.glentham.com

Certificate of Analysis

Product Name

L-Glutamic acid, GlenCell™, suitable for cell culture

Glentham Code

GM8976

CAS Number 56-86-0
EINECS 200-293-7
MDL Number MFCD00002634
Batch Number 761NYU

$$HO \longrightarrow OH$$
 NH_2
 OH

Property	Specification	Batch 761NYU
Physical Description	White crystalline powder	Conforms
Identification	To pass tests	Conforms
Solubility (5% in water)	Clear, colourless solution	Conforms
pH (1% in water)	3.0 - 3.5	3.3
Transmittance	≥ 98.0% (5% in water, 430nm, 10mm cell)	Conforms
Specific Optical Rotation ([α]20/D)	+31.5 - +32.2 °	+32.1°
Chloride (CI)	≤ 0.02%	Conforms
Sulphate (SO4)	≤ 0.02%	Conforms
Ammonium (NH4)	≤ 0.02%	Conforms
Iron (Fe)	≤ 10ppm	Conforms
Arsenic (As2O3)	≤ 1ppm	Conforms
Heavy Metals (as Pb)	≤ 5ppm	Conforms
Any Individual Impurity	≤ 0.2%	0.08% (max.)
Total Impurities	≤ 0.6%	0.08%
Sulphated Ash	≤ 0.1%	0.04%
Loss on Drying	≤ 0.5%	0.04%
Endotoxins	≤ 6EU/g	≤ 6EU/g
Assay	99.0 - 101.0 % (dried basis)	99.6%
Pharmacopoeia Specification(s)	EP	Conforms to EP
Origin	Non-animal origin	Conforms

Specification Version v1.0

Manufacture Date 2017-03-09

Re-Test Date 2029-12-21

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.

This document was generated electronically and is therefore valid without signature. © Glentham Life Sciences Ltd, 2025

Page 1 of 1 Printed: 2025-04-16 18:08:20