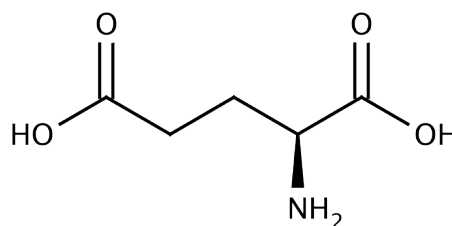


Product Specification

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

Molecular Weight : 147.13
 Molecular Formula : C₅H₉NO₄
 Storage Temp. : +20°C



Property	Specification
Physical Description	White crystalline powder
Identification	To pass tests
Solubility (5% in water)	Clear, colourless solution
pH (1% in water)	3.0 - 3.5
Transmittance	≥ 98.0% (5% in water, 430nm, 10mm cell)
Specific Optical Rotation ([α] _D ²⁰)	+31.5 - +32.2 °
Chloride (Cl)	≤ 0.02%
Sulphate (SO ₄)	≤ 0.02%
Ammonium (NH ₄)	≤ 0.02%
Iron (Fe)	≤ 10ppm
Arsenic (As ₂ O ₃)	≤ 1ppm
Heavy Metals (as Pb)	≤ 5ppm
Any Individual Impurity	≤ 0.2%
Total Impurities	≤ 0.6%
Sulphated Ash	≤ 0.1%
Loss on Drying	≤ 0.5%
Endotoxins	≤ 6EU/g
Assay	99.0 - 101.0 % (dried basis)
Pharmacopoeia Specification(s)	EP
Origin	Non-animal origin

Specification Version : v1.0
 Date Created : 2017-12-22

Product Specification

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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