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## **Product Specification**

Product Name

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

Glentham Code

GM8976

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 GM8976

 CAS Number
 56-86-0

 EINECS
 200-293-7

 MDL Number
 MFCD00002634

$$HO \longrightarrow OH$$
 $NH_2$ 
 $OH$ 

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

Specification Version - v1.0

Date Created - 2017-12-22

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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