Glentham LIFE SCIENCES

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Product Specification

| Product Name | L-Glutamic acid, GlenCell™, suitable for cell culture | |
|-------------------|---|----------------------|
| Glentham Code | GM8976 | A A |
| CAS Number | 56-86-0 | 0 0 |
| EINECS | 200-293-7 | |
| Numéro MDL | MFCD00002634 | |
| Molecular Weight | 147.13 | HO' Y |
| Molecular Formula | C ₅ H ₉ NO ₄ | ■ NH ₂ |
| Storage Temp. | +20°C | N1 ₂ |

| 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]20/D) | +31.5 - +32.2 ° |
| Chloride (Cl) | ≤ 0.02% |
| Sulphate (SO4) | ≤ 0.02% |
| Ammonium (NH4) | ≤ 0.02% |
| Iron (Fe) | ≤ 10ppm |
| Arsenic (As2O3) | ≤ 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

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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