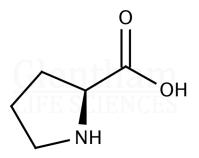


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Certificate of Analysis

Product Name L-Proline, GlenCell™, suitable for cell culture Glentham Code GM9897 CAS Number 147-85-3 **EINECS** 205-702-2 MDL Number MFCD00064318 Batch Number 892AND Molecular Weight 115.13 Molecular Formula $C_5H_9NO_2$ Storage Temp. +20°C



| Property | Specification | Batch 892AND |
|---------------------------|--------------------------------------|--------------------------|
| Physical Description | White crystals or crystalline powder | White crystalline powder |
| Identification | IR | Conforms |
| Solubility (10% in water) | Clear, colourless solution | Conforms |
| Transmittance | ≥ 98.0% | 100.0% |
| Specific Optical Rotation | -84.586.0 ° | -85.4° |
| Chloride (CI) | ≤ 0.02% | ≤ 0.02% |
| Ammonium (NH4) | ≤ 0.02% | ≤ 0.02% |
| Sulphate (SO4) | ≤ 0.02% | ≤ 0.02% |
| Iron (Fe) | ≤ 10ppm | ≤ 10ppm |
| Heavy Metals (as Pb) | ≤ 10ppm | ≤ 5ppm |
| Arsenic (As2O3) | ≤ 1ppm | ≤ 1ppm |
| Any Unspecified Impurity | ≤ 0.2% | 0.0% |
| Total Impurities | ≤ 0.5% | 0.0% |
| Residue on Ignition | ≤ 0.1% | 0.02% |
| Loss on Drying | ≤ 0.25% | 0.11% |
| pH (10% in water) | 5.9 - 6.9 | 6.4 |
| Endotoxins | ≤ 6.0EU/g | ≤ 3.0EU/g |
| Assay | 99.0 - 101.0 % (dried basis) | 99.8% |
| Origin | Non-animal origin | Conforms |

Specification Version v1.0

Manufacture Date 2022-12-02

Re-Test Date 2028-12-31

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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