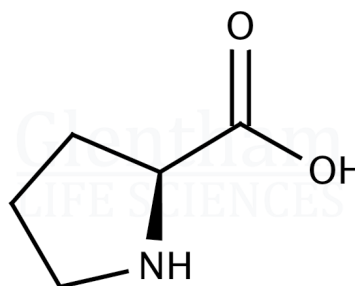


## Certificate of Analysis

Product Name	L-Proline, GlenCell™, suitable for cell culture
Glenthams Code	GM9897
CAS Number	147-85-3
EINECS	205-702-2
MDL Number	MFCD00064318
Batch Number	892AND
Molecular Weight	115.13
Molecular Formula	C <sub>5</sub> H <sub>9</sub> NO <sub>2</sub>
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	-84.5 - -86.0 °	-85.4°
Chloride (Cl)	≤ 0.02%	≤ 0.02%
Ammonium (NH <sub>4</sub> )	≤ 0.02%	≤ 0.02%
Sulphate (SO <sub>4</sub> )	≤ 0.02%	≤ 0.02%
Iron (Fe)	≤ 10ppm	≤ 10ppm
Heavy Metals (as Pb)	≤ 10ppm	≤ 5ppm
Arsenic (As <sub>2</sub> O <sub>3</sub> )	≤ 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

Glenthams Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check [www.glenthams.com](http://www.glenthams.com) or contact us using the details above for the current version of this document.

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