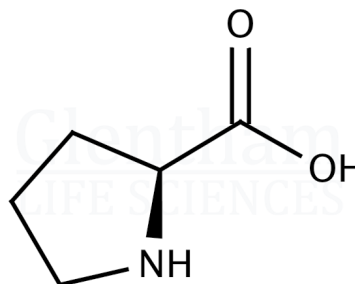


## Product Specification

Product Name	L-Proline, GlenCell™, suitable for cell culture
Glenthams Code	GM9897
CAS Number	147-85-3
EINECS	205-702-2
MDL-Nummer	MFCD00064318
Molecular Weight	115.13
Molecular Formula	C <sub>5</sub> H <sub>9</sub> NO <sub>2</sub>
Storage Temp.	+20°C



Property	Specification
Physical Description	White crystals or crystalline powder
Identification	IR
Solubility (10% in water)	Clear, colourless solution
Transmittance	≥ 98.0%
Specific Optical Rotation	-84.5 - -86.0 °
Chloride (Cl)	≤ 0.02%
Ammonium (NH <sub>4</sub> )	≤ 0.02%
Sulphate (SO <sub>4</sub> )	≤ 0.02%
Iron (Fe)	≤ 10ppm
Heavy Metals (as Pb)	≤ 10ppm
Arsenic (As <sub>2</sub> O <sub>3</sub> )	≤ 1ppm
Any Unspecified Impurity	≤ 0.2%
Total Impurities	≤ 0.5%
Residue on Ignition	≤ 0.1%
Loss on Drying	≤ 0.25%
pH (10% in water)	5.9 - 6.9
Endotoxins	≤ 6.0EU/g
Assay	99.0 - 101.0 % (dried basis)
Origin	Non-animal origin

Specification Version	- v1.0
Date Created	- 2016-08-18

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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