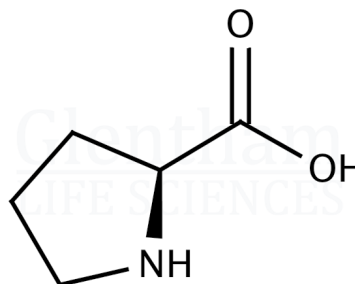


## Certificate of Analysis

Product Name L-Proline  
Glentham Code GM1129  
CAS Number 147-85-3  
EINECS 205-702-2  
MDL Number MFCD00064318  
PubChem SID 310279253  
Batch Number 552CZE

Molecular Weight 115.13  
Molecular Formula  $C_5H_9NO_2$   
Storage Temp. +20°C



Property	Specification	Batch 552CZE
Physical Description	White crystals or crystalline powder	White crystalline powder
Assay	99.0 - 101.0 % (anhydrous)	100.3%
Identification (IR)	To conform to standard	Conforms
Residue on Ignition	≤ 0.1%	< 0.1%
Chloride (Cl)	≤ 0.05%	< 0.05%
Sulphate (SO <sub>4</sub> )	≤ 0.03%	< 0.03%
Iron (Fe)	≤ 30ppm	< 30ppm
Heavy Metals (as Pb)	≤ 10ppm	< 10ppm
Organic Impurities	Any Individual Impurity: ≤ 0.5%	< 0.5%
	Total impurities: ≤ 2.0%	< 2.0%
Specific Optical Rotation	-84.5 - -86.0 °	-85.0°
Loss on Drying	≤ 0.4%	0.1%
Lead (Pb)	≤ 3ppm	< 0.04ppm
Arsenic (As)	≤ 1ppm	< 0.01ppm
Mercury (Hg)	≤ 0.1ppm	< 0.01ppm
Cadmium (Cd)	≤ 1ppm	< 0.003ppm
Pharmacopoeia Specification(s)	Conforms to USP	Conforms

Specification Version v1.1  
Manufacture Date 2022-09-01  
Re-Test Date 2029-10-27

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](http://www.glentham.com) or contact us using the details above for the current version of this document.

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