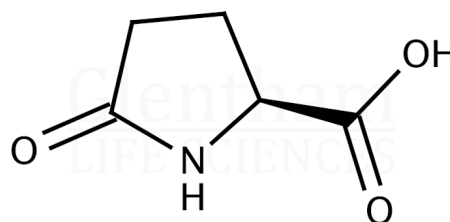


Certificate of Analysis

Product Name	L-Pyroglutamic acid
Glentham Code	GM2961
CAS Number	98-79-3
EINECS	202-700-3
MDL-Nummer	MFCD00005272
PubChem SID	310279484
Batch Number	904TEA

Molecular Weight	129.12
Molecular Formula	C ₅ H ₇ NO ₃
Storage Temp.	+20°C



Property	Specification	Batch 904TEA
Physical Description	White or almost white crystalline powder	Almost white crystalline powder
Solubility (10% in water)	Clear, colourless solution	Clear, colourless solution
Specific Optical Rotation ([α] _{20/D})	-8.0 - -12.0 ° (c=5, water)	-10.5 °
Melting Point	155 - 163 °C (clear melt)	160.7°C
Assay (Titration)	98.0 - 102.0 %	99.5%

Specification Version	v1.1
Manufacture Date	2020-12-10
Re-Test Date	2031-02-02

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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