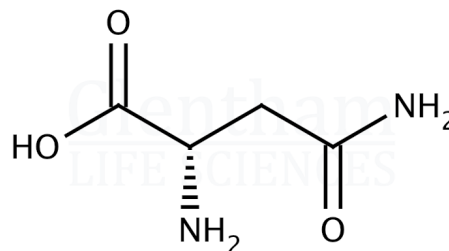


## Certificate of Analysis

Product Name	L-Asparagine, anhydrous
Glentham Code	GM9590
CAS Number	70-47-3
EINECS	200-735-9
MDL Number	MFCD00064401
PubChem SID	310267050
Batch Number	285XRD
Molecular Weight	132.12
Molecular Formula	C <sub>4</sub> H <sub>8</sub> N <sub>2</sub> O <sub>3</sub>
Storage Temp.	+20°C



Property	Specification	Batch 285XRD
Physical Description	White crystalline powder	White crystalline powder
Solubility (5% in 1M HCl)	Clear, colourless solution	Clear, colorless solution
pH	4.4 - 6.4	4.5
Specific Optical Rotation	+34.3 - +36.5 °	+35.2°
Ammonium (NH <sub>4</sub> )	≤ 0.1%	Conforms
Sulphate (SO <sub>4</sub> )	≤ 0.02ppm	Conforms
Chloride (Cl)	≤ 0.02%	Conforms
Iron (Fe)	≤ 10ppm	Conforms
Arsenic (As)	≤ 1ppm	Conforms
Heavy Metals (as Pb)	≤ 10ppm	≤ 5ppm
Residue on Ignition	≤ 0.1%	Conforms
Loss on Drying	≤ 0.3%	0.2%
Assay	98.0 - 102.0 % (dried basis)	99.8%

Specification Version	v1.0
Manufacture Date	2023-05-15
Re-Test Date	2031-06-19

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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