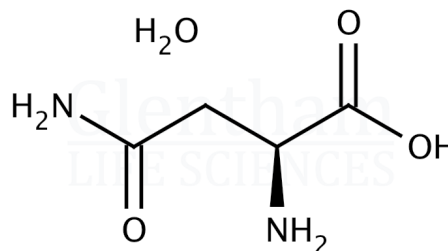


## Certificate of Analysis

Product Name	L-Asparagine monohydrate, EP grade
Glentham Code	GM3228
CAS Number	5794-13-8
EINECS	200-735-9
MDL Number	MFCD00151038
Batch Number	623KNO
Molecular Weight	150.14
Molecular Formula	$C_4H_8N_2O_3 \cdot H_2O$
Storage Temp.	+20°C



Property	Specification	Batch 623KNO
Physical Description	White or almost white crystalline powder or colourless crystals	White crystalline powder
Identification	A, B, C according to EP	Conforms
Solubility (2% in water)	Clear, colourless solution	Conforms
pH (2% in water)	4.0 - 6.0	4.6
Specific Optical Rotation	+33.7 - +36.0 ° (c=10, 3M HCl)	+35.4°
Ninhydrin-positive substances	≤ 0.5%	Conforms
Chlorides	≤ 0.02%	Conforms
Sulphates	≤ 0.02%	Conforms
Ammonium	≤ 0.1%	Conforms
Iron (Fe)	≤ 10ppm	Conforms
Heavy Metals	≤ 10ppm	Conforms
Sulphated Ash	≤ 0.1%	0.02%
Loss on Drying	10.5 - 12.5 % (130°C, 3h)	12.0%
Assay	99.0 - 101.0 % (dried substance)	99.8%
Pharmacopoeia Specification(s)	EP	Conforms

Specification Version	v1.0
Manufacture Date	2021-10-20
Re-Test Date	2030-02-21

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.

This document was generated electronically and is therefore valid without signature. © Glentham Life Sciences Ltd, 2024