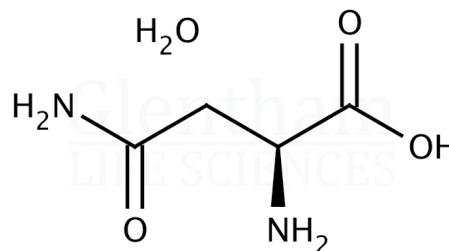


Certificate of Analysis

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 or contact us using the details above for the current version of this document.

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