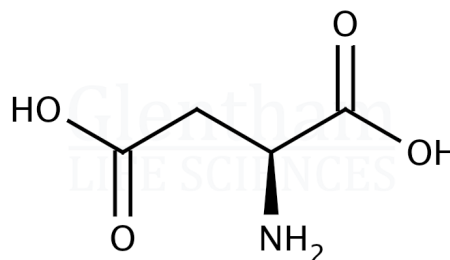


Certificate of Analysis

Product Name	L-Aspartic acid, GlenCell™, suitable for cell culture
Glentham Code	GM0348
CAS Number	56-84-8
EINECS	200-291-6
Batch Number	118TGS
Molecular Weight	133.10
Molecular Formula	$C_4H_7NO_4$
Storage Temp.	+20°C



Property	Specification	Batch 118TGS
Physical Description	White to almost white crystalline powder	White powder
Identification	A, B, C, D according to Ph. Eur.	Conforms
Solubility (5% in 1M HCl)	Clear, colourless solution (\leq BY6)	Conforms
Specific Optical Rotation ($[\alpha]_{20/D}$)	+24.0 - +26.0 °	26.0 °
Ninhydrin-positive substances	\leq 0.3% (each)	0.05%
Dicarboxylic acids	\leq 0.3%	0.05%
Enantiomeric Impurity	\leq 0.3%	Conforms
Chlorides	\leq 200ppm	Conforms
Sulphates	\leq 300ppm	Conforms
Ammonium	\leq 200ppm	Conforms
Iron	\leq 10ppm	Conforms
Loss on Drying	\leq 0.5%	0.02%
Sulphated Ash	\leq 0.1%	Conforms
Assay (Titration)	98.5 - 101.5 % (dried substance)	100.1%
Pharmacopoeia Specification(s)	Ph. Eur.	

Specification Version	v1.0
Manufacture Date	2018-05-26
Re-Test Date	2028-04-30

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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