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Certificate of Analysis

Product Name	L-Aspartic acid, GlenCell™, suitable for cell culture	
Glentham Code	GM0348	0
CAS Number	56-84-8	П
EINECS	200-291-6	110 (1 4 - -
Batch Number	118TGS	HO
Molecular Weight	133.10	LIME SCH Y NGES
Molecular Formula	$C_4H_7NO_4$	
Storage Temp.	+20°C	O NH ₂
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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 (≤ BY6)	Conforms
Specific Optical Rotation ([α]20/D)	+24.0 - +26.0 °	26.0 °
Ninhydrin-positive substances	≤ 0.3% (each)	0.05%
Dicarboxylic acids	≤ 0.3%	0.05%
Enantiomeric Impurity	≤ 0.3%	Conforms
Chlorides	≤ 200ppm	Conforms
Sulphates	≤ 300ppm	Conforms
Ammonium	≤ 200ppm	Conforms
Iron	≤ 10ppm	Conforms
Loss on Drying	≤ 0.5%	0.02%
Sulphated Ash	≤ 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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