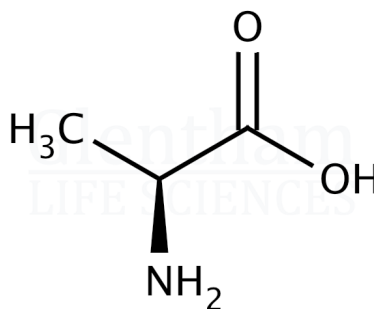


Certificate of Analysis

Product Name	L-Alanine
Glentham Code	GM7668
CAS Number	56-41-7
EINECS	200-273-8
MDL Number	MFCD00064410
PubChem SID	310265934
Batch Number	680NJL

Molecular Weight	89.09
Molecular Formula	C ₃ H ₇ NO ₂
Storage Temp.	+20°C



Property	Specification	Batch 680NJL
Physical Description	White crystalline powder	White crystalline powder
pH	5.7 - 6.7	6.5
Specific Optical Rotation	13.5 - 15.5 °	+14.6°
Ammonium (NH ₄)	≤ 0.02%	< 0.02%
Sulphate (SO ₄)	≤ 0.03%	< 0.03%
Chloride (Cl)	≤ 0.02%	< 0.02%
Arsenic (As ₂ O ₃)	≤ 1ppm	< 1ppm
Iron (Fe)	≤ 10ppm	< 10ppm
Lead (Pb)	≤ 3ppm	< 3ppm
Cadmium (Cd)	≤ 1ppm	< 1ppm
Mercury (Hg)	≤ 0.1ppm	< 0.1ppm
Sulphated Ash	≤ 0.1%	0.05%
Loss on Drying	≤ 0.2%	0.09%
Assay	98.5 - 101.0 %	99.1%
Pharmacopoeia Specification(s)	Conforms to EP	Conforms

Specification Version	v1.0
Manufacture Date	2022-04-19
Re-Test Date	2030-11-17

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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