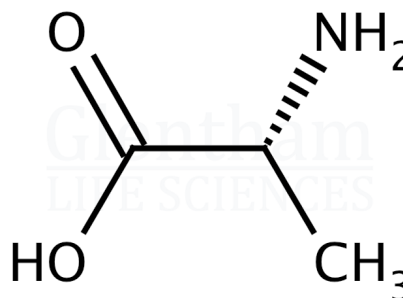


Certificate of Analysis

Product Name	D-Alanine
Glentham Code	GM9575
CAS Number	338-69-2
EINECS	206-418-1
MDL Number	MFCD00008077
PubChem SID	310265935
Batch Number	940GMQ

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



Property	Specification	Batch 940GMQ
Physical Description	White crystalline powder	Conforms
Solubility (5% in water)	Clear, colourless solution	Conforms
Specific Optical Rotation ([α] _D 20/D)	-16.5 - -13.5 ° (c=10, 6M HCl)	-14.9°
Chloride (Cl)	≤ 0.1%	Conforms
Heavy Metals (as Pb)	≤ 10ppm	Conforms
Residue on Ignition	≤ 0.2%	0.04%
Loss on Drying	≤ 0.5%	0.16%
Assay	98.0 - 101.0 % (anhydrous basis)	100.5%

Specification Version	v1.0
Manufacture Date	2016-07-01
Re-Test Date	2028-05-22

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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