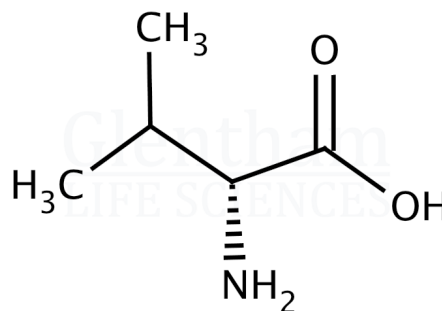


Certificate of Analysis

Product Name	D-Valine
Glenthams Code	GM5893
CAS Number	640-68-6
EINECS	211-368-9
MDL Number	MFCD00064219
PubChem SID	310281626
Batch Number	863XVT

Molecular Weight	117.15
Molecular Formula	C ₅ H ₁₁ NO ₂
Storage Temp.	+20°C



Property	Specification	Batch 863XVT
Physical Description	White crystalline powder	White crystalline powder
Solubility (5% in water)	Clear, colourless solution	Clear, colourless solution
Specific Optical Rotation ([α] _{20/D})	25.0 - 29.0 °	-27.6 °
Residue on Ignition	≤ 0.20%	0.05%
Heavy Metals (as Pb)	≤ 10ppm	Conforms
Loss on Drying	≤ 0.5%	0.21%
Assay	98.0 - 101.0 %	99.7%

Specification Version	v1.1
Manufacture Date	2019-04-13
Re-Test Date	2028-09-20

Glenthams Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glenthams.com or contact us using the details above for the current version of this document.

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