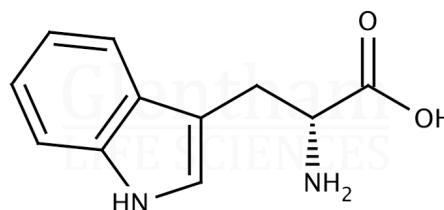


Certificate of Analysis

Product Name	D-Tryptophan
Glentham Code	GM5015
CAS Number	153-94-6
EINECS	205-819-9
MDL Number	MFCD00005647
PubChem SID	310281482
Batch Number	368LPM
Molecular Weight	204.23
Molecular Formula	$C_{11}H_{12}N_2O_2$
Storage Temp.	+20°C



Property	Specification	Batch 368LPM
Physical Description	White to off-white or pale yellow-beige powder	Off-white powder
Identification (IR)	To conform to standard	Conforms
Solubility (2% in water)	Clear, colourless to yellow-brown solution	Clear, pale yellow-brown solution
Specific Optical Rotation	+30.0 - +33.0 ° (c=1, water)	+30.5°
Residue on Ignition	≤ 0.2%	< 0.2%
Related Substances	≤ 0.1% (L-tryptophan)	Conforms
Loss on Drying	≤ 1.0%	0.3%
Assay (Titration)	≥ 98.0%	99.5%

Specification Version	v1.1
Manufacture Date	2016-09-02
Re-Test Date	2029-12-03

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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