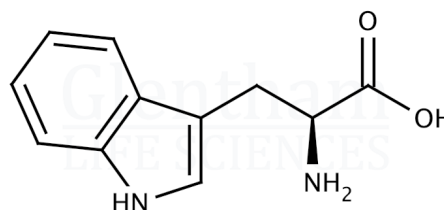


Product Specification

Product Name	L-Tryptophan
Glentham Code	GM0674
CAS Number	73-22-3
EINECS	200-795-6
MDL Number	MFCD00064340
PubChem SID	310281481
Molecular Weight	204.23
Molecular Formula	C ₁₁ H ₁₂ N ₂ O ₂
Storage Temp.	+20°C



Property	Specification
Physical Description	White to off-white powder
Identification (IR)	To conform to standard
pH (1% in water)	5.5 - 7.0
Specific Optical Rotation ($[\alpha]_{25/D}$)	-29.4 - -32.8 ° (10mg/ml, water)
Loss on Drying	≤ 0.3% (105°C, 3h)
Residue on Ignition	≤ 0.1%
Lead (Pb)	≤ 3ppm
Arsenic (As)	≤ 1ppm
Cadmium (Cd)	≤ 1ppm
Mercury (Hg)	≤ 0.1ppm
Chloride	≤ 0.05%
Sulphate	≤ 0.03%
Iron (Fe)	≤ 30ppm
Heavy Metals	≤ 15ppm
Organic Impurities	≤ 0.01% of total impurities prior to peak and ≤ 0.03% of total impurities after peak
Related Compound A	To pass test
Assay	98.5 - 101.5 % (dried basis)
Pharmacopoeia Specification(s)	USP

Specification Version	-	v1.2
Date Created	-	2020-01-02

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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