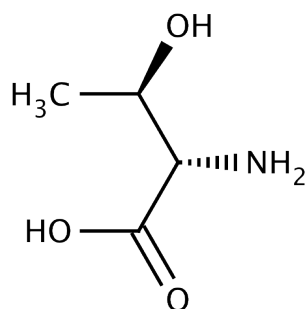


Product Specification

Product Name	L-Threonine
Glentham Code	GM4509
CAS Number	72-19-5
EINECS	200-774-1
MDL Number	MFCD00064270
PubChem SID	310280944
Molecular Weight	119.12
Molecular Formula	C ₄ H ₉ NO ₃
Storage Temp.	+20°C



Property	Specification
Physical Description	White or almost white crystalline powder or flakes
Assay	99.0 - 101.0 %
Chloride (Cl)	≤ 0.02%
Ammonium (NH ₄)	≤ 0.02%
Sulphate (SO ₄)	≤ 0.02%
Iron (Fe)	≤ 10ppm
Heavy Metals	≤ 10ppm
Arsenic (As ₂ O ₃)	≤ 1ppm
Loss on Drying	≤ 0.2%
pH	EP, USP: 5.0 - 6.5, AJI: 5.2 - 6.2
Specific Optical Rotation	EP, AJI: -29.0 to -27.6 °, USP: -29.1 to -26.7 °
Lead (Pb)	≤ 3ppm
Mercury (Hg)	≤ 0.1ppm
Cadmium (Cd)	≤ 1ppm
Any Individual Impurity	≤ 0.5%
Total Impurities	≤ 2.0%
Residue on Ignition	≤ 0.10%
Pharmacopoeia Specification(s)	Conforms to EP, USP, AJI

Specification Version	-	v1.0
Date Created	-	2014-05-13

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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