

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-11-23 13:51:36

Date of Next Testing: 2026-11-22 13:51:36

Product Name: **L-Threonine**

CAS Number: 72-19-5

Specifications & Purity: 99%

Lot #: K2218737

SKU #: **T108221**Version: **1**Analysis #: **127691**

Storage Temperature: Desiccated

Parameter	Limit Values	Result
Ignition Residue	0-0.1 (%)	0.00 %
Purity(HPLC)	99-100 (%)	99.52200 %
Carbon by Elemental Analysis	39.6-41.1 (%)	40.62 %
Specific Rotation [α] ₂₀ /D(c=6 in H ₂ O)	-29--27.5 (°)	-28.33 °
Nitrogen by Elemental Analysis	11.5-13.1 (%)	12.65 %
Loss on drying	0-0.2 (%)	0.11 %
Appearance (T108221)	White to off-white powder, needles and/or Chunks	White to off-white powder, needles and/or Chunks
Solubility,Colorless and clear(5% in H ₂ O)	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure

John Su
QA & QC Manager