

## Certificate of Analysis

Date of Testing: 2022-11-23 14:36:33  
 Date of Next Testing: 2026-11-22 14:36:33  
 Product Name: **L-Threonine**  
 CAS Number: 72-19-5  
 Specifications & Purity: 99%  
 Lot #: K2218736  
 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] <sub>D</sub> <sup>20</sup> (c=6 in H <sub>2</sub> 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 <sub>2</sub> O)	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
 QA & QC Manager