

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Specification Sheet

Product Name: **L-Threonine**  
Specifications & Purity: from non-animal source,EP,JP,USP ; for cell culture,99.0-101.0%  
SKU # **T108222**

Parameter	Limit Values
Specific Rotation $[\alpha]_{20/D(c=6 \text{ in H}_2\text{O})}$	-29--27.6 (°)
Purity(as dry basis)	99-101 (%)
PH test (USP)	5-6.5
Specific Rotation $[\alpha]_{25/D(c=6 \text{ in H}_2\text{O})}$	-29.1--26.7 (°)
Loss on drying	0-0.2 (%)
Ignition Residue	0-0.1 (%)
(As)Arsenic	0-1 (ppm)
Ammonia (NH <sub>4</sub> )	0-0.02 (%)
Iron(Fe)	0-10 (ppm)
Heavy metals	0-10 (ppm)
Chloride (Cl <sup>-</sup> )	0-0.02 (%)
Sulfate(SO <sub>4</sub> <sup>2-</sup> )	0-0.02 (%)
Appearance (T108222)	White Powder or Crystals
Cell Culture Test	pass
Infrared spectrum	Conforms to Structure
Ninhydrin-positive substances (other amino acids)	Conforms
Origin	non-animal source
Residual solvents	complies
Solubility in H <sub>2</sub> O , Colorless,Clear,100 mg/mL, H <sub>2</sub> O	pass