



## Specification

### L-Threonine USP

<b>Catalog Number:</b>	TR1006
<b>CAS Number:</b>	72-19-5
<b>Synonym(s):</b>	(2S,3R)-2-Amino-3-hydroxybutyric acid
<b>Molecular Formula:</b>	C <sub>4</sub> H <sub>9</sub> NO <sub>3</sub>
<b>Molecular Weight:</b>	119.12
<b>Storage:</b>	15°C – 30°C
<b>Retest Period:</b>	Two years from date of manufacture.

Test	Specification
Appearance	White crystals or crystalline powder
Assay (on dried basis)	98.5 % to 101.5%
Identification	Positive
Specific rotation	-26.7° to -29.1°
Melting Point	~256°C
Moisture (LOD)	≤0.2%
Solubility (10%)	Clear and colorless
pH	5.0 – 6.5
Chromatographic impurity	Individual ≤0.5% Total ≤2.0%
Residue on ignition	≤0.4%
Chloride	≤0.05%
Sulfate	≤0.003% (Decreased)
Heavy Metals	≤15.0ppm (Increased)
Arsenic	≤1.0ppm
Cadmium	≤1.0ppm
Iron	≤10.0ppm (decreased)
Lead	≤1.0ppm
Mercury	≤0.1 ppm (Decreased)
Total Plate Count	≤1000cfu/g (Not listed)
Yeast & Mold	≤100cfu/g
Coliforms	≤100cfu/g
<i>E. Coli</i>	Negative
<i>Salmonella</i>	Negative
<i>Staphylococcus Aureus</i>	Negative
Mesh size	60 – 200mesh (Not listed)
Bulk Density	0.20 – 0.60g/mL (Not listed)
Tap Density	0.50 – 0.90g/mL (Not listed)
This lot meets USP specifications.	

Approved:

Date: June 24, 2015



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