

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.comEmail USA: techserv@sial.comOutside USA: eurtechserv@sial.com

Product Specification

Product Name:

L-Threonine – from non-animal source, meets EP, JP, USP testing specifications, suitable for cell culture, 99.0–101.0%

Product Number:

T8441

CAS Number:

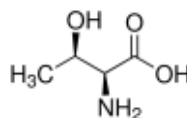
72-19-5

MDL:

MFCD00064270

Formula:
C₄H₉NO₃
Formula Weight:

119.12 g/mol


TEST
Specification

Appearance (Color)	White
Appearance (Form)	Crystalline Powder
Solubility (Color)	Colorless
Solubility (Turbidity)	Clear
1 g to 10 mL, H ₂ O	
Identity by IR	Conforms to Structure
Specific Rotation	-29.0 - -27.6 °
(EP/JP) At 20 deg C, C = 6 in H ₂ O	
Specific Rotation	-29.1 - -26.7 °
USP, 25 deg C, C = 6 in H ₂ O	
Chloride (Cl)	< = 0.020%
Sulfate	< = 0.020%
Iron (Fe)	< = 10 ppm
Heavy Metals	< = 10 ppm
Arsenic (As)	< = 1 ppm
Loss on Drying	≤ 0.20 %
Residue on ignition (Ash)	≤ 0.10 %
Ninhydrin-Positive Substances	Conforms
Assay (Dry Basis)	99.0 - 101.0 %
Origin	Conforms
Non-animal source	
Residual Solvents	Meets Requirements
Ammonium	≤ 0.02 %
pH	5.0 - 6.5
USP, 5% in H ₂ O	

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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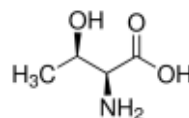
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TEST	Specification
pH EP, 2.5% in H ₂ O	5.0 - 6.5
pH JP, 1% in H ₂ O	5.2 - 6.2
Endotoxin Assay	≤ 1 EU/mg
Cell Culture Test	Pass
Recommended Retest Period 4 years	-----
Note Meets USP, EP, and JP testing specifications	-----

Specification: PRD.3.ZQ5.10000032814

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