

# Chem-Impex International, Inc.

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**Manufacturing site:**

825 Dillon Drive

Wood Dale, IL 60191

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## Certificate of Analysis

<b>Catalogue Number</b>	00282
<b>Lot Number</b>	001192-151104
<b>Product</b>	<b>L-Threonine</b> L-Thr-OH (2S,3R)-2-Amino-3-hydroxybutyric acid
<b>CAS Number</b>	72-19-5
<b>Molecular Formula</b>	C <sub>4</sub> H <sub>9</sub> NO <sub>3</sub>
<b>Molecular Weight</b>	119.1

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<b>Appearance</b>	White crystals or crystalline powder
<b>Heavy Metals</b>	< 15 ppm
<b>Anion</b>	Chloride (Cl <sup>-</sup> ) : < 0.05% Sulfate (SO <sub>4</sub> <sup>2-</sup> ) : < 0.03%
<b>Cation</b>	Iron (Fe) : < 30 ppm
<b>pH</b>	5.5
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = -27.62 °
<b>Loss on Drying</b>	0.12%
<b>Related Substances</b>	Individual impurity : < 0.5% Total impurities : < 2%
<b>Residue On Ignition</b>	0.06%
<b>Assay</b>	99.71% (on dried basis)
<b>Grade</b>	Meets USP Specification
<b>Storage</b>	Store at RT
<b>Additional Information</b>	Identification : Test for A : Infrared spectroscopy : Conforms to structure

# *Certificate of Analysis*

Catalog Number: 00282

Lot Number: 001192-151104

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**Remarks**

See material safety data sheet for additional information

For laboratory use only

**The foregoing is a copy of the Certificate of Analysis as provided by our supplier**



**Bala Kumar**  
**Quality Control Manager**