## Chem-Impex International, Inc.

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935 Dillon Drive

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Wood Dale, IL 60191

## Certificate of Analysis

Catalogue Number 36935

**Lot Number** 002895-930001

Product L-Threonine, non animal origin

(2S,3R)-2-Amino-3-hydroxybutyric acid

CAS Number 72-19-5 Molecular Formula C<sub>4</sub>H<sub>9</sub>NO<sub>3</sub> Molecular Weight 119.1

**Appearance** White crystalline powder

**Heavy Metals** < 10 ppm (as Pb)

**Anion** Chloride (Cl) : < 0.020%

Sulfate (SO4) : < 0.020%

Cation Ammonium (NH4): 0.00%Iron (Fe): < 10 ppm

Arsenic: < 1 ppm

**pH** 5.8

Mould and Yeast Mold : < 10 cfu/gOptical Rotation  $[a]^{20}_D = -28.5^{\circ}_{[a]^{25}_D} = -28.3^{\circ}$ 

**Transmission** State of solution : 99.5%, Clear and colorless solution

Loss on Drying0.00%E. ColiNegativeEndotoxin Test< 6.0 EU/g</th>Microbial Count< 100 cfu/g</th>Related SubstancesPasses testResidue On Ignition0.02%

Assay 100%
Grade USP, EP, JP
Storage Store at RT

**Additional Information** Identification : Passes test

**Country of Origin** USA

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Catalog Number: 36935 Lot Number: 002895-930001

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**