

# Chem-Impex International, Inc.

---

Tel: (630) 766-2112

E-mail: sales@chemimpex.com

Shipping and Correspondence:

935 Dillon Drive

Wood Dale, IL 60191

Fax: (630) 766-2218

Web site: www.chemimpex.com

Manufacturing site:

825 Dillon Drive

Wood Dale, IL 60191

---

## Certificate of Analysis

<b>Catalogue Number</b>	14293
<b>Product</b>	<b><i>N</i><sup>γ</sup>-Ethyl-L-glutamine</b>
<b>Lot Number</b>	001639-20180611 L-Theanine
<b>CAS Number</b>	3081-61-6
<b>Molecular Formula</b>	C <sub>7</sub> H <sub>14</sub> N <sub>2</sub> O <sub>3</sub>
<b>Molecular Weight</b>	174.2

---

<b>Appearance</b>	White crystalline powder
<b>Solubility</b>	Clear, colorless solution (1g/20ml H <sub>2</sub> O)
<b>Heavy Metals</b>	< 10 ppm (as Pb)
<b>Anion</b>	Chloride (Cl <sup>-</sup> ): < 0.02%
<b>Cation</b>	Arsenic (As): < 1ppm Iron (Fe): < 10ppm Mercury (Hg): < 1ppm Cadmium (Cd): < 1ppm
<b>pH</b>	5.15
<b>Yeast and Mold</b>	< 100 cfu/g
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = + 8.20° (C=1 in H <sub>2</sub> O)
<b>Loss on Drying</b>	0.41%
<b>E. Coli</b>	Absent
<b>Microbial Count</b>	< 1000 cfu/g (Total plate count)
<b>Salmonella</b>	Absent
<b>Residue On Ignition</b>	0.12%
<b>Purity by HPLC</b>	99.20%
<b>Storage</b>	Store at 0-8 °C

# *Certificate of Analysis*

Catalog Number: 14293

Lot Number: 001639-20180611

---

**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**