



## Specification

### L-Glutamic Acid AJI92

<b>Catalog Number:</b>	GA1005
<b>CAS Number:</b>	56-86-0
<b>Synonym(s):</b>	(S)-2-Aminopentanedioic acid, Glu
<b>Molecular Formula:</b>	C <sub>5</sub> H <sub>9</sub> O <sub>4</sub> N
<b>Molecular Weight:</b>	147.13
<b>Storage:</b>	15°C – 30°C
<b>Retest Period:</b>	Two years from the date of manufacture

Test	Specification
Appearance	White powder
Assay	99.0 – 100.5%
Identification (FTIR)	To match reference spectra
Specific Rotation (c=10, 2N HCl)	+31.5° to +32.5°
State of Solution	Clear & colorless
Transmittance	≥ 98.0%
pH	3.0 – 3.5
Moisture (LOD)	≤ 0.2%
Residue on Ignition	≤ 0.1%
Other Amino Acids	To meet requirements
Ammonium	≤ 0.02%
Chloride	≤ 0.02%
Sulfate	≤ 0.02%
Heavy Metals	≤ 10ppm
Arsenic	≤ 1ppm
Lead	≤ 1ppm
Iron	≤ 10ppm
Mercury	≤ 0.2ppm
Total Plate Count	≤ 1,000cfu/g
Yeast & Mold	≤ 100cfu/g
<i>E. coli</i>	Negative/25g
<i>Salmonella</i>	Negative/25g
<i>S. aureus</i>	Negative/25g

Approved:

Date: September 11, 2018

John Grubb, PhD  
Gojira Fine Chemicals  
Quality Manager  
Tel: 440-252-5397, Fax: 888-211-5523  
[docsupport@gojiraafc.com](mailto:docsupport@gojiraafc.com)