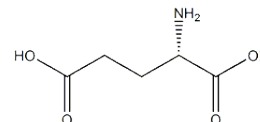


## Certificate Of Analysis

**Name:** L-Glutamic acid  
**CAS NO.:** 56-86-0  
**Cat NO.:** A831210  
**Batch No.:** L26042017  
**Mfg.Date:** 2017.04.26  
**Exp.Date:** 2019.04.25



Items	Specifications	Results
<b>Appearance</b>	White crystals or crystalline powder	Conforms
<b>State of solution (Transmittance)</b>	≥98%	Conforms
<b>Specific rotation[α]<sub>20/D</sub> (C=10 in 2N HCl)</b>	+31.5~ +32.5°	+31.86°
<b>Chloride (Cl)</b>	≤0.020%	<0.020%
<b>Ammonium (NH<sub>4</sub>)</b>	≤0.02%	<0.02%
<b>Sulfate (SO<sub>4</sub>)</b>	≤0.020%	<0.020%
<b>Iron(Fe)</b>	≤10ppm	<10ppm
<b>Heavy metal(Pb)</b>	≤10ppm	<10ppm
<b>Arsenic(As<sub>2</sub>O<sub>3</sub>)</b>	≤1ppm	<1ppm
<b>Other Amino Acids</b>	Chromatographically Not detectable	Conforms
<b>Loss on drying</b>	≤0.20%	0.14%
<b>Residue on ignition(sulfated)</b>	≤0.10%	0.09%
<b>PH</b>	3.0 ~ 3.5	3.4
<b>Purity</b>	98%(min)	Conforms
<b>Conclusion</b>	The product tested complies with the specifications.	

**Storage condition:** Store in a tightly closed container in a cool and dry place.

Checker:

*\* if you have any comments and suggestions, please contact us by [sales@amadischem.com](mailto:sales@amadischem.com)*