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## Product Specification

Product Name:

L-Glutamic acid – from non-animal source, meets EP testing specifications, suitable for cell culture, 98.5–100.5%

Product Number:

G8415

CAS Number:

56-86-0

MDL:

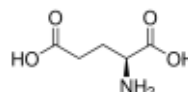
MFCD00002634

Formula:

C<sub>5</sub>H<sub>9</sub>NO<sub>4</sub>

Formula Weight:

147.13 g/mol



TEST	Specification
Appearance (Color)	White
Appearance (Form)	Crystalline Powder
Solubility (Color)	Colorless
Solubility (Turbidity)	Clear
1.0 g to 10 ml of 1 M HCl	
Specific Rotation	31.5 - 32.4 °
(C = 10 in 1 M HCl at 20 deg C)	
Chloride Content	Pass
< /= 200 ppm	
Sulfate	Pass
< /= 200 ppm	
Iron (Fe)	Pass
< /= 10 ppm	
Loss on Drying	≤ 0.10 %
Residue on ignition (Ash)	≤ 0.10 %
pH	3.0 - 3.5
1% in H <sub>2</sub> O	
Assay	98.5 - 100.5 %
(dry basis)	
Arsenic (As)	Pass
< /= 1 ppm	
Ammonium	Pass
< /= 200 ppm	
Ninhydrin-Positive Substances	Conforms
(other amino acids)	

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at [Sigma-Aldrich.com](http://Sigma-Aldrich.com). For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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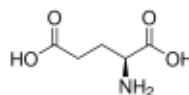
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### TEST

### Specification

Origin	Conforms
Must be non-animal source	
Identification	Pass
Residual Solvents	Meets Requirements
Endotoxin Level	≤ 1 EU/mg
Cell Culture Test	Pass
Cell Line	Attached Cell Line
Cell Line	Attached Cell Line
Cell Line	Attached Cell Line
Recommended Retest Period	-----
4 years	

Specification: PRD.2.ZQ5.10000012318

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