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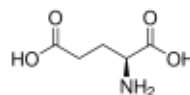
Email USA: techserv@sial.com

Outside USA: eurtechserv@sial.com

Product Specification

Product Name:
L-Glutamic acid - 99%, FCC

Product Number: W328502
CAS Number: 56-86-0
MDL: MFCD00002634
Formula: C₅H₉NO₄
Formula Weight: 147.13 g/mol



TEST	Specification
Appearance (Color)	White
Appearance (Form)	Powder or Solid or Crystals
Infrared spectrum	Conforms to Structure
Purity (Titration by HClO ₄)	98.5 - 101.5 %
Dried Basis	
Loss on Drying	≤ 0.1 %
2 gm sample 105°C Atm. for 3 hrs.	
Residue on ignition (Ash)	≤ 0.3 %
Optical Rotation	31.5 - 32.5 deg
10%, 2N HCl	
On Dried Sample	
Foreign Insoluble Matter	≤ 0.005 %
(in Amino Acids)	
Arsenic (As)	≤ 3 ppm
Cadmium (Cd)	≤ 1 ppm
Mercury (Hg)	≤ 1 ppm
Lead (Pb)	≤ 5 ppm
Expiration Date Period	-----
5 Years	

Specification: PRD.4.ZQ5.10000005505

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. 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.