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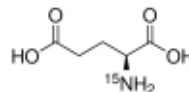
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:

L-Glutamic acid-¹⁵N - 98 atom % ¹⁵N

Product Number: 332143
Batch Number: MBBC3627
Brand: ALDRICH
CAS Number: 21160-87-2
MDL Number: MFCD00055786
Formula: C₅H₉¹⁵N₁O₄
Formula Weight: 148.11 g/mol
Quality Release Date: 14 DEC 2017



Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder	Powder
Purity (HPLC)	≥ 99 %	101 %
Chiral Purity	≤ 1 %	0 %
Water (by Karl Fischer)	≤ 0.5 %	0.0 %
Proton NMR Spectrum	Conforms	Conforms
Carbon NMR Spectrum	Conforms	Conforms
¹⁵ N Enrichment	≥ 98 %	99 %

Greg Abernathy, Supervisor
Quality Control
Miamisburg, Ohio US

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.