

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-12-06 16:20:05
 Date of Next Testing: 2027-12-06 16:20:05
 Product Name: **L-Glutamine-¹³C₅,¹⁵N₂**
 CAS Number: 285978-14-5
 Specifications & Purity: ≥98 atom% ¹³C, ≥98 atom% ¹⁵N
 Lot #: L2405390
 SKU #: **L471821**
 Version: **1**
 Analysis #: **441752**
 Storage Temperature: Protected from light, Room temperature

Parameter	Limit Values	Result
Purity(HPLC area)	95-100 (%)	99.20000 %
Isotopic purity(¹³ C)	98-100 (%)	99.00000 %
Isotopic purity(¹⁵ N)	98-100 (%)	99.00000 %
Enantiomeric Excess	95-100 (%)	98.00000 %
NMR Spectrum ¹ H	Conforms to Structure	Conforms to Structure
Appearance(L471821)	White solid	White Solid



John Su
QA & QC Manager