

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing:	2023-04-27 13:49:12
Date of Next Testing:	2026-04-26 13:49:12
Product Name:	L-Glutamine-¹³C₅
CAS Number:	184161-19-1
Specifications & Purity:	Moligand™, ≥98 atom% ¹³ C, ≥95%
Lot #:	D23191312
SKU #	L471811
Version	1
Analysis #:	199107
Storage Temperature:	Store at 2-8°C

Parameter	Limit Values	Result
Isotopic purity(¹³ C)	98-100 (atom%)	98.00000 atom%
Chemical Purity	95-100 (%)	95.00000 %
Water by Karl Fischer	0-0.5 (%)	0.47000 %
Appearance(L471811)	White to Off-White Solid	White to off-white solid
NMR Spectrum 1H	Conforms to Structure	Conforms to Structure
Carbon NMR Spectrum	conforms to structure	Conforms to Structure



John Su
QA & QC Manager