

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-04-27 14:04:01

Date of Next Testing: 2026-04-26 14:04:01

Product Name: **L-Glutamine-¹³C₅**

CAS Number: 184161-19-1

Specifications & Purity: Moligand™, ≥98 atom% ¹³C, ≥95%

Lot #: D23191362

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