

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-04-26 16:08:17
 Date of Next Testing: 2028-04-25 16:08:17
 Product Name: **DL-3-Phenylalanine-2-13C**
 CAS Number: 64193-01-7
 Specifications & Purity: ≥ 99 atom% ^{13}C , $\geq 97\%$
 Lot #: D2525266
 SKU #: **D646440**
 Version: **2**
 Analysis #: **496104**
 Storage Temperature: Store at -20°C

Parameter	Limit Values	Result
Isotopic purity(^{13}C)	99-100 (atom%)	99.40000 atom%
Purity(HPLC)	97-100 (%)	97.00000 %
Specific Rotation $[\alpha]_{20}/D(c=1 \text{ in } \text{H}_2\text{O})$	-1~1 ($^{\circ}$)	0.50000 $^{\circ}$
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
LC-MS for identification	Conforms	Conforms



John Su
QA & QC Manager