

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-04-26 16:25:25

Date of Next Testing: 2028-04-25 16:25:25

Product Name: **DL-3-Phenylalanine-2-13C**

CAS Number: 64193-01-7

Specifications & Purity: ≥ 99 atom% ^{13}C , $\geq 97\%$

Lot #: D2525265

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 $[\alpha]_{20/\text{D}}(\text{c}=1 \text{ in } \text{H}_2\text{O})$	-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