

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-04-26 16:42:30
Date of Next Testing: 2028-04-25 16:42:30
Product Name: **DL-3-Phenylalanine-2-13C**
CAS Number: 64193-01-7
Specifications & Purity: ≥ 99 atom% 13C, $\geq 97\%$
Lot #: D2525264
SKU #: **D646440**
Version: **2**
Analysis #: **496104**
Storage Temperature: Store at -20°C

Parameter	Limit Values	Result
Isotopic purity(13C)	99-100 (atom%)	99.40 atom%
Purity(HPLC)	97-100 (%)	97.00000 %
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in H}_2\text{O})$	-1~1 (°)	0.50°
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
LC-MS for identification	Conforms	Conforms



John Su
QA & QC Manager