

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-07-04 14:57:57

Date of Next Testing: 2026-07-03 14:57:57

Product Name: **DL-Penicillamine**

CAS Number: 52-66-4

Specifications & Purity: $\geq 97\%$

Lot #: F2230383

SKU #: **P113830**Version: **0**Analysis #: **096477**

Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{20/D(c=5 \text{ in } 1 \text{ M NaOH})}$	-1-1 (°)	0.21300 °
Purity(Neutralization titration)	96.5-103.5 (%)	98.82000 %
Appearance (P113830)	White to Off-White Powder	White to Off-White Powder
Proton NMR spectrum	Conforms to Structure	Conforms to Structure

John Su
QA & QC Manager