

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-02-27 11:05:50

Date of Next Testing: 2027-02-26 11:05:50

Product Name: **L-Penicillamine**

CAS Number: 1113-41-3

Specifications & Purity: $\geq 98\%$ (T)

Lot #: B2318690

SKU #: **S161218**

Version: **0**

Analysis #: **146087**

Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Purity(Titration by HClO ₄)	97.5-102.5 (%)	98.06000 %
Specific Rotation [α] ₂₀ /D(c=1 in 1mol/L NaOH)	61-65 (°)	64.35500 °
Appearance (S161218)	White to Off-White Powder or Crystals	White to Off-White Powder or Crystals
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager