

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-01-20 16:13:52

Date of Next Testing: 2026-01-19 16:13:52

Product Name: **L-Penicillamine**

CAS Number: 1113-41-3

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

Lot #: A2215277

SKU #: **S161218**Version: **0**Analysis #: **055772**

Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Purity(Titration by HClO ₄)	97.5-102.5 (%)	99.44000 %
Specific Rotation [α] _{20/D} (c=1 in 1mol/L NaOH)	61-65 (°)	64.99000 °
Appearance (S161218)	White to Off-White Powder or Crystals	White to Off-White Powder or Crystals
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure

John Su
QA & QC Manager