

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

# Certificate of Analysis

Date of Testing: 2025-10-13 19:14:55

Date of Next Testing: 2029-10-12 19:14:55

Product Name: **D-Penicillamine**

CAS Number: 52-67-5

Specifications & Purity: Moligand™, ≥98%(T)

Lot #: J2510557

SKU #: **P115952**

Version: **1**

**Analysis #:** **575969**

Storage Temperature: Store at 2-8°C

| Parameter                                               | Limit Values                        | Result                              |
|---------------------------------------------------------|-------------------------------------|-------------------------------------|
| UV Absorbance 268nm (c=0.2, H <sub>2</sub> O)           | 0-0.07                              | 0.04300                             |
| Specific Rotation [α] <sub>20</sub> /D(c=5 in 1 M NaOH) | -65--61 (°)                         | -61.35000 °                         |
| Sulfate Ash                                             | 0-0.1 (%)                           | 0.05000 %                           |
| Heavy metal (as Pb)                                     | 0-20 (ppm)                          | 5.10000 ppm                         |
| Loss on drying                                          | 0-0.5 (%)                           | 0.20000 %                           |
| Purity(Titration)                                       | 98-102 (%)                          | 99.57000 %                          |
| Appearance (P115952)                                    | White to pale cream powder or solid | White to pale cream powder or solid |
| Proton NMR spectrum                                     | Conforms to Structure               | Conforms to Structure               |



John Su  
QA & QC Manager