

## Certificate of Analysis

Date of Testing: 2023-08-14 16:34:57  
Date of Next Testing: 2027-08-13 16:34:57  
Product Name: **D-Penicillamine**  
CAS Number: 52-67-5  
Specifications & Purity: Moligand™, ≥98%(T)  
Lot #: H2310652  
SKU #: **P115952**  
Version: **1**  
Analysis #: **257369**  
Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
UV Absorbance 268nm (c=0.2, H2O)	0-0.07	0.01
Purity(Titration)	98-102 (%)	99.39 %
Sulfate Ash	0-0.1 (%)	0.03 %
Heavy metal (as Pb)	0-20 (ppm)	1.52 ppm
Loss on drying	0-0.5 (%)	0.12 %
Specific Rotation [α] <sub>20</sub> /D(c=5 in 1 M NaOH)	-65--61 (°)	-61.23 °
Appearance (P115952)	White to pale cream powder or solid	White to pale cream powder or solid
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager