

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-01-17 14:49:04
 Date of Next Testing: 2027-01-17 14:49:04
 Product Name: **Cinchonine Sulfate Dihydrate**
 CAS Number: 5949-16-6
 Specifications & Purity: $\geq 98\%$
 Lot #: C23281078
 SKU #: **C134223**
 Version: **0**
 Analysis #: **464558**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Purity(HPLC)	85-100 (%)	88.10000 %
Water by Karl Fischer	4.7-5.2 (°)	4.80000 °
Purity(Neutralization titration)	98-100 (%)	99.90000 %
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in EtOH})$	188-192 (°)	189.00000 °
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager