



ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-04-03 18:23:31

Date of Next Testing: 2025-04-02 18:23:31

Product Name: **Cinchonine Sulfate Dihydrate**

CAS Number: 5949-16-6

Specifications & Purity: $\geq 98\%$

Lot #: C23281077

SKU #: **C134223**

Version **0**

Analysis #: **208030**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Purity(HPLC)	85-100 (%)	88.48600 %
Water by Karl Fischer	4.7-5.2 (°)	4.90800 °
Purity(Neutralization titration)	98-100 (%)	99.58000 %
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in EtOH})$	188-192 (°)	189.96000 °
Proton NMR spectrum	Conforms to Structure	Conforms to Structure

John Su
QA & QC Manager