

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-01-02 09:15:31
 Date of Next Testing: 2028-01-01 09:15:31
 Product Name: **(+)-Cinchonine**
 CAS Number: 118-10-5
 Specifications & Purity: 98%
 Lot #: L2321176
 SKU #: **C106926**
Analysis: **077325**
 Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Loss on drying	0-1 (%)	0.05 %
Purity(HPLC) (~85%Cinchonine+~15% dihydrocinchonine)	98-100 (%)	99.36 %
Quinidine	0-3 (%)	1.50 %
Sulfate Ash	0-0.1 (%)	0.06 %
Quinine	0-3 (%)	1.20 %
Purity(Nonaqueous Titration)	98-100 (%)	98.01 %
Specific Rotation $[\alpha]_{20/D}(c=0.5 \text{ in EtOH})$	218-228 (°)	227.56 °
Appearance (C106926)	white to grey powder or crystals	white to grey powder or crystals
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager