

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-06-02 15:59:19
Date of Next Testing: 2029-06-01 15:59:19
Product Name: **(+)-Cinchonine**
CAS Number: 118-10-5
Specifications & Purity: $\geq 98\%$
Lot #: E2523202
SKU #: **C106926**
Version: **0**
Analysis #: **510087**
Storage Temperature: Store at 2-8°C, Protected from light, Argon charged

Parameter	Limit Values	Result
Loss on drying	0-1 (%)	0.50 %
Purity(HPLC) (~85% Cinchonine + ~15% dihydrocinchonine)	98-100 (%)	99.40 %
Quinidine	0-3 (%)	0.90 %
Specific Rotation $[\alpha]_{20/D}(c=0.5 \text{ in EtOH})$	218-228 (°)	225.62 °
Sulfate Ash	0-0.1 (%)	0.01 %
Quinine	0-3 (%)	1.10 %
Purity(Nonaqueous Titration)	98-100 (%)	99.24 %
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