

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-07-03 11:01:21  
 Date of Next Testing: 2029-07-02 11:01:21  
 Product Name: **(+)-Cinchonine**  
 CAS Number: 118-10-5  
 Specifications & Purity: Moligand™, ≥98%  
 Lot #: K2123247  
 SKU #: **C106926**  
 Version: **0**  
 Analysis #: **536438**  
 Storage Temperature: Store at 2-8°C, Protected from light, Argon charged

Parameter	Limit Values	Result
Loss on drying	0-1 (%)	0.06080 %
Purity(HPLC) (~85% Cinchonine + ~15% dihydrocinchonine)	98-100 (%)	99.64000 %
Quinidine	0-3 (%)	0.08900 %
Specific Rotation $[\alpha]_{20/D}(c=0.5 \text{ in EtOH})$	218-228 (°)	227.11800 °
Sulfate Ash	0-0.1 (%)	0.09800 %
Quinine	0-3 (%)	0.19800 %
Purity(Nonaqueous Titration)	98-100 (%)	98.98000 %
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