

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-01-22 14:55:38

Date of Next Testing: 2026-01-21 14:55:38

 Product Name: **(+)-Cinchonine**

CAS Number: 118-10-5

Specifications &amp; Purity: 98%

Lot #: A2220063

 SKU #: **C106926**
**Analysis: 069196**

Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Loss on drying	0-1 (%)	0.06 %
Purity(HPLC) (~85%Cinchonine+~15% dihydrocinchonine)	98-100 (%)	99.64 %
Quinidine	0-3 (%)	0.09 %
Specific Rotation[a] <sub>20</sub> /D(c=0.5 in EtOH)	218-228 (°)	227.12 °
Sulfate Ash	0-0.1 (%)	0.01 %
Quinine	0-3 (%)	0.20 %
Purity(Nonaqueous Titration)	98-100 (%)	99.00 %
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