

Shanghai Aladdin Biochemical Technology Co., LTD
809 Chuhua Branch Road, Fengxian District, Shanghai 201400, China

Certificate of Analysis

Date of Testing: 2023-08-18 11:20:52
Date of Next Testing: 2027-08-17 11:20:52
Product Name: **(+)-Cinchonine**
CAS Number: 118-10-5
Specifications & Purity: $\geq 98\%$
Lot #: H2309591
SKU #: **C106926**
Version: **0**
Analysis #: **077325**
Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Loss on drying	0-1 (%)	0.05000 %
Purity(HPLC) (~85%Cinchonine+~15% dihydrocinchonine)	98-100 (%)	99.36400 %
Quinidine	0-3 (%)	1.50000 %
Sulfate Ash	0-0.1 (%)	0.06000 %
Quinine	0-3 (%)	1.20000 %
Purity(Nonaqueous Titration)	98-100 (%)	98.01000 %
Specific Rotation $[\alpha]_{20/D(c=0.5 \text{ in EtOH})}$	218-228 (°)	227.56000 °
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