

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing:	2024-07-20 12:02:25
Date of Next Testing:	2028-07-19 12:02:25
Product Name:	(+)-Cinchonine
CAS Number:	118-10-5
Specifications & Purity:	98%
Lot #:	G2416568
SKU #	C106926
Version	0
Analysis #:	351436
Storage Temperature:	Store at 2-8°C

Parameter	Limit Values	Result
Specific Rotation[a] ₂₀ /D(c=0.5 in EtOH)	218-228 (°)	219.79 °
Loss on drying	0-1 (%)	0.50 %
Purity(HPLC) (~85%Cinchonine+~15% dihydrocinchonine)	98-100 (%)	98.58 %
Quinidine	0-3 (%)	2.00 %
Sulfate Ash	0-0.1 (%)	0.10 %
Quinine	0-3 (%)	1.50 %
Purity(Nonaqueous Titration)	98-100 (%)	98.00 %
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