

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-09-25 13:42:33

Date of Next Testing: 2027-09-24 13:42:33

Product Name: **Cinchonine monohydrochloride hydrate**

CAS Number: 5949-11-1

Specifications & Purity: $\geq 80\%$

Lot #: I2321529

SKU # **C100937**

Version **0**

Analysis #: **280824**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Purity(Nonaqueous Titration)(calcd.onanh.substance)	98-100 (%)	98.00000 %
Loss on drying	0-12 (%)	0.00000 %
Purity(HPLC)	80-100 (%)	85.13500 %
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in EtOH})$	177-187 ($^{\circ}$)	177.41800 $^{\circ}$
Appearance (C100937)	white powder	White powder
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager