

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing:	2024-05-13 16:06:00
Date of Next Testing:	2027-05-13 16:06:00
Product Name:	Quinine
CAS Number:	130-95-0
Specifications & Purity:	for fluorescence, ≥98.0%
Lot #:	H2103383
SKU #	Q105030
Analysis:	357306
Storage Temperature:	Protected from light, Argon charged

Parameter	Limit Values	Result
Purity(dried material, NT)	97.5-102.5 (%)	101.10 %
Specific Rotation [α] ₂₀ /D(c=1 in CHCL ₃)	-131--121 (°)	-121.01 °
Melting point	173-175 (°C)	174.97000 °C
loss on drying, 110 °C	0-1 (%)	0.01 %
dihydroquinine(NMR)	0-5 (%)	4.13000 %
Appearance (Q105030)	white to light grey powder	white to light grey powder
Fluorescence, λ _{ex} 347 nm; λ _{em} 448 nm in 0.5 M sulfuric acid	Conforms	Conforms
Infrared spectrum	Conforms to Structure	Conforms to Structure
suitability for fluorescence	pass	Pass



John Su
QA & QC Manager