

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-01-10 14:14:24
 Date of Next Testing: 2027-01-09 14:14:24
 Product Name: **Quinine sulfate dihydrate**
 CAS Number: 6119-70-6
 Specifications & Purity: biological reagent grade , 99.0%,BioReagent, suitable for fluorescence
 Lot #: A2305625
 SKU #: **Q110176**
Analysis: **159670**
 Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Water by Karl Fischer	2-6 (%)	5.32 %
Purity (Titration by NaOH)(anhydrous)	98.5-101.5 (%)	100.63 %
dihydroquinine sulfate (HPLC)	0-10 (%)	2.63 %
Specific Rotation [α] ₂₀ /D(c=2 in 0.1 M HCl)	-235--225 (°)	-234.10 °
Appearance (Q110176)	White to Off-White Powder	White to Off-White Powder
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Fluorescence, λ _{ex} 347 nm; λ _{em} 448 nm in 0.5 M sulfuric acid suitability for fluorescence	Conforms pass	Conforms Pass



John Su
QA & QC Manager