

ALADDIN SCIENTIFIC CORPORATION
14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-01-11 16:21:13
Date of Next Testing: 2027-01-10 16:21:13
Product Name: **Quinine sulfate dihydrate**
CAS Number: 6119-70-6
Specifications & Purity: BioReagent, for fluorescence analysis, Moligand™, ≥99%
Lot #: A2305652
SKU #: **Q110176**
Version: **0**
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) dihydroquinine sulfate (HPLC)	98.5-101.5 (%) 0-10 (%)	100.63 % 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