

Certificate of Analysis

Date of Testing: 2025-02-11 14:03:30

Date of Next Testing: 2029-02-10 14:03:30

Product Name: **Quinine sulfate dihydrate**

CAS Number: 6119-70-6

Specifications & Purity: BioReagent, for fluorescence analysis, ≥99%

Lot #: D2129172

SKU #: **Q110176**

Version: **0**

Analysis #: **468617**

Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Water by Karl Fischer	2-6 (%)	5.21 %
Specific Rotation $[\alpha]_{20/D(c=2 \text{ in } 0.1 \text{ M HCl})}$	-245~-225 (°)	-225.60 °
Purity (Titration by NaOH)(anhydrous)	98.5-101.5 (%)	100.00 %
dihydroquinine sulfate (HPLC)	0-10 (%)	5.00 %
Appearance (Q110176)	White to Off-White Powder	White to Off-White Powder
Fluorescence, λ_{ex} 347 nm; λ_{em} 448 nm in 0.5 M sulfuric acid	Conforms	Conforms
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
suitability for fluorescence	pass	Pass



John Su
QA & QC Manager