

Certificate of Analysis

Date of Testing: 2022-08-31 17:28:26
 Date of Next Testing: 2026-08-30 17:28:26
 Product Name: **Quinine sulfate dihydrate**
 CAS Number: 6119-70-6
 Specifications & Purity: biological reagent grade , 99.0%,BioReagent, suitable for fluorescence
 Lot #: H2229519
 SKU #: **Q110176**
Analysis: **116096**
 Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Water by Karl Fischer	2-6 (%)	5.20 %
Specific Rotation [α] ₂₀ /D(c=2 in 0.1 M HCl)	-235--225 (°)	-226.03 °
Purity (Titration by NaOH)(anhydrous)	98.5-101.5 (%)	99.41 %
dihydroquinine sulfate (HPLC)	0-10 (%)	7.06 %
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