

Certificate of Analysis

Date of Testing: 2022-08-31 11:47:11

Date of Next Testing: 2026-08-30 11:47:11

Product Name: **Quinine hydrochloride dihydrate**

CAS Number: 6119-47-7

Specifications & Purity: for fluorescence, 99%

Lot #: H2213244

SKU #: **Q107528**

Analysis: **130098**

Parameter	Limit Values	Result
Purity(Neutralization titration)	98.5-101.5 (%)	100.67 %
Specific Rotation $[\alpha]_{20/D}(c=2 \text{ in } 0.1 \text{ M HCl})$	-237--227 (°)	-232.50 °
Loss on drying	0-5 (%)	0.25 %
Sulfate Ash	0-0.1 (%)	0.00 %
Appearance (Q107528)	white powder	White 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