

Certificate of Analysis

Date of Testing: 2023-03-30 20:18:04

Date of Next Testing: 2027-03-29 20:18:04

Product Name: **Quinine hydrochloride dihydrate**

CAS Number: 6119-47-7

Specifications & Purity: for fluorescence, 99%

Lot #: C23241374

SKU #: **Q107528**

Analysis: **205980**

Parameter	Limit Values	Result
Purity(Neutralization titration)	98.5-101.5 (%)	99.09
Sulfate Ash	0-0.1 (%)	0.04 %
Loss on drying(105 °C, 60 Minutes)	0-10 (%)	6.52 %
Specific Rotation $[\alpha]_{20/D}(c=2 \text{ in } 0.1 \text{ M HCl in calcd. on dried})$	-255~-245 (°)	-249.99 °
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