

Certificate of Analysis

Date of Testing: 2023-02-20 18:48:12

Date of Next Testing: 2027-02-19 18:48:12

Product Name: **Quinine hydrochloride dihydrate**

CAS Number: 6119-47-7

Specifications & Purity: 99%

Lot #: B2317133

SKU #: **Q107527**

Analysis: **189611**

Parameter	Limit Values	Result
Loss on drying(105 °C, 60 Minutes)	0-10 (%)	5.81 %
Specific Rotation [α] ₂₀ /D(c=2 in 0.1 M HCl in calcd.on dried)	-255--245 (°)	-245.12 °
Purity(Nonaqueous Titration)(calcd.on dried substance)	99-101 (%)	100.67 %
Appearance (Q107527)	White to Off-White Powder, Crystals or Granules	White to Off-White Powder, Crystals or Granules
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in hot H ₂ O	almost transparency	almost transparency



John Su
QA & QC Manager