

Certificate of Analysis

Date of Testing: 2023-03-30 20:24:54

Date of Next Testing: 2027-03-29 20:24:54

Product Name: **Quinine hydrochloride dihydrate**

CAS Number: 6119-47-7

Specifications & Purity: $\geq 99\%$

Lot #: C23241461

SKU #: **Q107527**

Version: **0**

Analysis #: **182289**

Parameter	Limit Values	Result
Loss on drying(105 °C, 60 Minutes)	0-10 (%)	6.52 %
Specific Rotation $[\alpha]_{20/D}(c=2 \text{ in } 0.1 \text{ M HCl in } -255--245 \text{ } ^\circ)$ calcd.on dried)		-249.99 °
Purity(Nonaqueous Titration)(calcd.on dried substance)	99-101 (%)	99.09 %
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 H2O	almost transparency	almost transparency



John Su
QA & QC Manager