

Certificate of Analysis

Date of Testing: 2023-01-11 15:55:51

Date of Next Testing: 2027-01-10 15:55:51

Product Name: **Quinine sulfate dihydrate**

CAS Number: 6119-70-6

Specifications & Purity: biological reagent grade , 99.0%,BioReagent, suitable for fluorescence

Lot #: A2305819

SKU #: **Q110176**

Analysis: **159670**

Storage Temperature: Store at 2-8°C

| Parameter | Limit Values | Result |
|---|----------------------------|---------------------------|
| Water by Karl Fischer | 2-6 (%) | 5.32 % |
| Purity (Titration by NaOH)(anhydrous) dihydroquinine sulfate (HPLC) | 98.5-101.5 (%) 0-10 (%) | 100.63 % 2.63 % |
| Specific Rotation [α] ₂₀ /D(c=2 in 0.1 M HCl) | -235--225 (°) | -234.10 ° |
| Appearance (Q110176) | White to Off-White Powder | White to Off-White Powder |
| Proton NMR spectrum | Conforms to Structure | Conforms to Structure |
| Fluorescence, λ _{ex} 347 nm; λ _{em} 448 nm in 0.5 M sulfuric acid suitability for fluorescence | Conforms pass | Conforms Pass |



John Su
QA & QC Manager