



### CERTIFICATE OF ANALYSIS

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Product	Quinine sulfate dihydrate
Grade	Reagent
Product Code	QB0802
Formula	$C_{40}H_{48}N_4O_4 \cdot H_2O_4S \cdot 2H_2O$
MW	782.95
CAS#	6119-70-6
Lot No.	
Re-Assay Date	

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Test Items	Specifications	Results
Appearance	White to off-white powder or crystals	
Purity (Titration by NaOH) (anhydrous)	97.5 – 102.5%	
Loss on drying	3 – 5%	
Specific rotation [α] <sub>20/D</sub> (c=2 in 0.1 M HCl)	-245° to -225°	
Sulfate ash	0 – 0.1%	
Infrared spectrum	Conforms to structure	

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Storage: 2–8°C

This Signature indicates that the above material has met all quality specifications and has been reviewed by a quality representative.

Signature: *Nancy G.*

Title: Quality Manager

Date: April 7, 2026