

CERTIFICATE OF ANALYSIS

Product Quinine hemisulfate salt monohydrate

Grade Reagent Product Code QB0802

Formula $C_{20}H_{24}N_2O_2\cdot 0.5H_2O_4S\cdot H_2O$

MW 391.47 CAS# 6119-70-6

Lot No

Test Items	Specifications	Results
Appearance	White, fine, needle-like crystals and/or fine powder. Odorless, has a persistent, very bitter taste. It darkens on exposure to light.	
Identification A,B,C	To pass test	
Specific Rotation	-23 ⁵ °245°	
Water	4.0%-5.5%	
Residue on Ignition	≤0.1%	
Heavy Metals	≤0.001%	
Assay (anhydrous basis)	99.0-101.0%	
Chloroform-Alcohol insoluble substances	≤0.1%	
Chromatographic Purity	To pass test	
Limit of Dihydroquinine Sulfate	≤10.0%	
Residue Solvents (Toluene)	≤890 ppm	
Solubility (5% in 95% Ethanol)	Clear, colorless to very faint yellow solution	

Storage: R.T.