ThermoFisher SCIENTIFIC

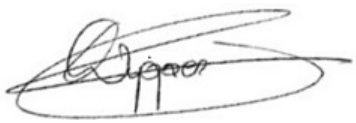
Version	00
Molecular weight	782.96
Molecular Formula	C40 H48 N4 O4 . H2 S O4 . 2 H2 O
CAS No	6119-70-6
Linear Formula	
Flash Point (°C)	

Certificate of Analysis

Catalog Number	41878	**Quality Test / Release Date**	05/06/2024
Lot Number	A0462238	**Suggested retest date**	05/06/2029
Description	Quinine sulfate dihydrate,specified according to the require ments of USP		
Country of Origin	CHINA		
Declaration of Origin	plant		

BSE/TSE	
Chemical	

Result name	Specifications	Test Value
Appearance (Color)	White	White
Appearance (Form)	Powder or crystals or needles	Powder
Identification A	Passes test	Passes test
Identification B	Passes test	Passes test
Identification C	Passes test	Passes test
Titration with HClO4	99.0 to 101.0 % (on anhydrous basis)	100.7 % (on anhydrous basis)
Water	4.0 to 5.5 % (K.F.)	4.7 % (K.F.)
Residue after ignition	=<0.1 %	0.001 %
Heavy metals	=<10 ppm	=<10 ppm
Insoluble matter	=<0.1 % (in mixture of chloroform-alcohol (2:1))	=<0.1 % (in mixture of chloroform-alcohol (2:1))
Organic impurities	Passes test	Passes test
Dihydroquinine sulfate	=<10.0 %	6.9 %
Specific optical rotation	-235° to -245° (20°C, 589 nm) (c=2, 0.1 N HCl)	-241° (20°C, 589 nm) (c=2, 0.1 N HCl)
Specific optical rotation	on anhydrous basis	on anhydrous basis



C. Wygaerts, QA Manager

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