



# NEWAY SINOPHC TECH. LIMITED

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## Certificate of Analysis (COA)

Quality Release Date: 20 FEB 2026 Issue Date: 20 FEB 2026

### Product Information

Product Name Quinine Dihydrochloride  
Product Number QDH-20260220  
Batch Number QDH-SH2026022001  
Brand SIGALD  
CAS Number 60-93-5  
MDL Number MFCD00010824  
Formula  $C_{20}H_{24}N_2O_2 \cdot 2HCl$   
Formula Weight 397.34 g/mol

### Test Results

Test	Specification (Pharmacopoeial/Industrial Standard)	Result	Unit	Test Method
Appearance (Color)	White to off-white	White	-	Visual Inspection
Appearance (Form)	Crystalline powder	Crystalline powder	-	Visual Inspection
Assay (Purity, on dry basis)	$\geq 98.5\%$	99.3%	%	High Performance Liquid Chromatography (HPLC)
Loss on Drying	$\leq 1.0\%$	0.45%	%	Gravimetric Method (105°C, 2h)
Residue on Ignition	$\leq 0.1\%$	0.02%	%	Ignition at 600°C $\pm$ 50°C
Heavy Metals (Pb)	$\leq 5$ ppm	0.8 ppm	ppm	Atomic Absorption Spectrometry (AAS)
Heavy Metals (As)	$\leq 1$ ppm	0.1 ppm	ppm	Atomic Fluorescence Spectrometry (AFS)
Melting Point	235-240°C (decomp)	238°C	°C	Melting Point Apparatus
pH Value (5% aqueous solution, 25°C)	2.0-3.0	2.5	-	Digital pH Meter
Solubility in Water (25°C)	Freely soluble	1g/0.8mL	g/mL	Solubility Test
Related Substances	$\leq 1.0\%$	0.35%	%	HPLC
Residual Solvents	Meets USP <467> limits	Compliant	-	Gas Chromatography (GC)
Total Aerobic Count	$\leq 100$ CFU/g	12 CFU/g	CFU/g	Plate Count Method
E. coli	Negative	Negative	-	Microbiological Detection
Supplier Information	Confirmed	Confirmed	-	-
Registered Trademark	Confirmed	Confirmed	-	-

### Certification

This batch of product has been tested in accordance with Chinese Pharmacopoeia (CP) and international pharmacopoeial standards for Quinine Dihydrochloride and meets all specified requirements. It is qualified for use.