



**INDOFINE Chemical Company, Inc.**

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**Certificate Of Analysis**

Product No.: 020688

Product: Quinine monohydrochloride dihydrate, 99% (total base), may contain up to 10% Dihydroquinine

Lot No.: 10197949

  

Appearance: White powder

Water Content (Karl-Fischer): 8.5%

Assay (Aqueous acid-base titration): 99.59% (dry basis)

Impurity content: 3.86% dihydroxyquinine

Optical rotation:  $-250.3^{\circ}$  (dry basis) C=2 in 0.1M HCl