

Certificate of Analysis



Product Identification		Chemical Structure
Catalog number	HB955	
Compound name	Mefloquine hydrochloride	
Chemical name	(αS)-rel-α-(2R)-2-Piperidinyl-2,3-bis(trifluoromethyl)-4-quinolinemethanol hydrochloride	
Batch number	E1360-1-1	
Batch molecular formula	C ₁₇ H ₁₈ F ₆ N ₂ O.HCl.0.5H ₂ O	
Batch molecular weight	423.78	
Method	QC requirement	QC Result
HPLC	Reverse Phase HPLC shows >98% purity	Meets specification: 100%
NMR	¹ H NMR in DMSO at 400 MHz consistent with structure	Meets specification
Mass spectrum	Electrospray positive/negative analysis consistent with structure	Meets specification
Microanalysis	Elemental analysis is within 0.4% for the batch molecular formula	Meets specification
TLC	TLC analysis in 5% MeOH/DCM shows one spot under uv	Meets specification: R _f =0.1
Physical appearance	White to off-white solid	Meets specification: White solid
Solubility	Soluble in DMSO (50 mM) and in ethanol (100 mM)	Meets specification

Produced by

Signature

Passed by

Signature

Date

14-10-20

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.