



CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-211784
Lot Number: SAMPLE
Product Name: Mefloquine Hydrochloride
CAS Number: 51773-92-3
Molecular Formula: $C_{17}H_{16}F_6N_2O \cdot HCl$
Molecular Weight: 414.77

Test	Specification	Result
Appearance	White or light yellow crystalline powder	Complies
Assay (HPLC)	99-101%	100.1%
Identification (Infrared Spectrum)	Conforms to structure	Complies
Melting Point	259-264°C	261.3-263°C
Solubility	Freely soluble in methanol; Soluble in alcohol; Very slightly soluble in water.	Complies
Solubility	Clear and not more intensely colored than reference solution BY7	Complies
Optical Rotation	-0.2° to +0.2°	-0.14°
Heavy Metals	≤20 ppm	Complies
Related Substances	Related compound ≤0.2% Single impurity ≤0.1% Total impurities ≤0.5%	0.14% 0.02% 0.31%
Sulfated Ash	≤0.1%	Complies
Water Content	≤3.0%	2.1%

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.

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