

Certificate of Analysis



Product Identification		Chemical Structure
Catalog number	HB0699	
Compound name	Acridine Orange hydrochloride	
Chemical name	3,6-Bis(dimethylamino)acridine hydrochloride	
Batch number	E1683-1-1	
Batch molecular formula	C ₁₇ H ₁₉ N ₃ ·HCl·H ₂ O	
Batch molecular weight	319.83	
Method	QC requirement	QC Result
HPLC	Reverse Phase HPLC shows >98% purity	Meets specification: 99.9%
NMR	¹ H NMR in DMSO at 400 MHz consistent with structure	Meets specification
Mass spectrum	Electrospray positive analysis shows molecular ion	Meets specification
Microanalysis	Elemental analysis is within 0.4% for the batch molecular formula	Meets specification
Physical appearance	Red solid	Meets specification: Red solid
Solubility	Soluble in water (100 mM) and in DMSO (100 mM)	Meets specification
Biological validation		

Produced by Richard Patterson

Signature

Passed by Steve Roome

Signature

Date

14-10-21

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