

Certificate of Analysis



Product Identification		Chemical Structure
Catalog number	HB2050	
Compound name	(+)-Tubocurarine chloride	
Chemical name	2,3,13a,14,15,16,25,25a,-Octahydro-9,19-dihydroxy-18,29-dimethoxy-1,14,14-trimethyl-13H-4,6:21,24-dietheno-8,12-metheno-1H-pyrido[3',2':14,15][1,11]dioxacycloeicosino[2,3,4-ij]isoquinolinium	
Batch number	E0741-1-1	
Batch molecular formula	C ₃₇ H ₄₁ ClN ₂ O ₆ ·5H ₂ O.HCl	
Batch molecular weight	771.73	
Method	QC requirement	QC Result
HPLC	Reverse Phase HPLC shows >98% purity	Meets specification: 98.6%
NMR	¹ H NMR in DMSO at 400 MHz consistent with structure	Meets specification
Mass spectrum	Electrospray positive analysis consistent with structure	Meets specification
Microanalysis	Elemental analysis is within 0.4% for the batch molecular formula	Meets specification
Physical appearance	White to off-white solid	Meets specification: White solid
Solubility	Soluble in water (25 mM) and in DMSO (10 mM)	Meets specification
Biological validation		

Produced by

Signature

Passed by

Signature

Date

09-02-18

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