

Certificate of Analysis



Product Identification		Chemical Structure
Catalog number	HB1237	
Compound name	Verapamil hydrochloride	
Chemical name	α -[3-[[2-(3,4-Dimethoxyphenyl)ethyl]methylamino]propyl]-3,4-dimethoxyphenyl-(1-methylethyl)benzeneacetonitrile hydrochloride	
Batch number	E1401-1-1	
Batch molecular formula	$C_{27}H_{38}N_2O_4 \cdot HCl$	
Batch molecular weight	491.07	
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 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 =0.3
Physical appearance	White to off-white solid	Meets specification: White solid
Solubility	Soluble in water (50 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.