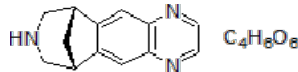


# Certificate of Analysis



Product Identification		Chemical Structure
Catalog number	HB2070	 <chem>C4H8O6</chem>
Compound name	Varenicline tartrate	
Chemical name	7,8,9,10-Tetrahydro-6,10-methano-6H-pyrazino[2,3-h][3]benzazepine tartrate	
Batch number	E1202-1-1	
Batch molecular formula	$C_{13}H_{13}N_3 \cdot C_4H_6O_6$	
Batch molecular weight	361.35	

Method	QC requirement	QC Result
HPLC	Reverse Phase HPLC shows >98% purity	Meets specification: 99.3%
NMR	<sup>1</sup> 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 (100 mM) and in DMSO (50 mM)	Meets specification

Produced by

Signature

Passed by

Signature

Date

17-10-19

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