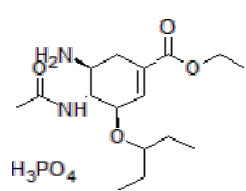


# Certificate of Analysis



Product Identification		Chemical Structure
<b>Catalog number</b>	HB7776	 <chem>CCOC(=O)C1=CC=C(C=C1)C(=O)N2C(=O)NC(=O)N2C3C(C)C(C)C3</chem> $H_3PO_4$
<b>Compound name</b>	Oseltamivir phosphate	
<b>Chemical name</b>	(3R,4R,5S)-4-Acetamido-5-amino-3-(1-ethylpropoxy)-1-cyclohexene-1-carboxylic acid ethyl ester phosphate salt	
<b>Batch number</b>	E1349-1-1	
<b>Batch molecular formula</b>	$C_{16}H_{31}N_2O_8P \cdot xH_2O$	
<b>Batch molecular weight</b>	410.40	
Method	QC requirement	QC Result
<b>HPLC</b>	Reverse Phase HPLC shows >98% purity	Meets specification: 100%
<b>NMR</b>	$^1H$ NMR in DMSO at 400 MHz consistent with structure	Meets specification
<b>Mass spectrum</b>	Electrospray positive analysis consistent with structure	Meets specification
<b>Microanalysis</b>	Elemental analysis is within 0.4% for the batch molecular formula	Meets specification
<b>TLC</b>	TLC analysis in 40% PAW/BuOH shows one spot under PMA	Meets specification: $R_f=0.8$
<b>Physical appearance</b>	White to off-white solid	Meets specification: White solid
<b>Solubility</b>	Soluble in water (75 mM)	Meets specification

Produced by

Signature

Passed by

Signature

Date

19-06-20

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