

# Certificate of Analysis



Product Identification		Chemical Structure
Catalog number	HB6126	
Compound name	Perapine dihydrochloride	
Chemical name	6-(4-Methyl-1-piperazinyl)-11H-dibenz[b,e]azepine dihydrochloride	
Batch number	E0660-1-1	
Batch molecular formula	C <sub>19</sub> H <sub>21</sub> N <sub>3</sub> ·2HCl·2H <sub>2</sub> O	
Batch molecular weight	400.30	
Method	QC requirement	QC Result
HPLC	Reverse Phase HPLC shows >98% purity	Meets specification: 99.6%
NMR	<sup>1</sup> H NMR in DMSO at 400 MHz consistent with structure	Meets specification
Mass spectrum	MALDI 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 + 1% NEt <sub>3</sub> shows one spot under uv	Meets specification: R <sub>f</sub> =0.15
Physical appearance	White to off-white solid	Meets specification: White solid
Solubility	Soluble in water (100 mM)	Meets specification
Biological validation		

Produced by	Richard Patterson	Signature	
Passed by	Huw Davies	Signature	
		Date	02/08/2017

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