## **Certificate of Analysis**



Product Identification		Chemical Structure		
Catalog number	HB4608	⊢ OH NMe₂		
Compound name	Doxycycline hyclate			
Chemical name	(4S,4aR,5S,5aR,6R,12aS)-4-(Dimethylamino)- 3,5,10,12, pentahydroxy- 6-methyl- 1,11-dioxo- 1,4,4a,5,5a,6,11,12a octahydrotetracene- 2-carboxamide hydrochloride hemiet	P- ĨŢĨŎĤĨĨ <sup>™</sup> 2		
Batch number	E2365-1-1			
Batch molecular formula	C <sub>22</sub> H <sub>24</sub> N <sub>2</sub> O <sub>8</sub> .HCl.0.5H <sub>2</sub> O.0.5C <sub>2</sub> H <sub>6</sub> O	0.5 x CH <sub>3</sub> CH <sub>2</sub> OH		
Batch molecular weight	512.94	HCI 0.5 x H <sub>2</sub> O		
Method	QC requirement	QC Result		
IPLC	Reverse Phase HPLC shows >94% purity	Meets specification: 99.0%		
	Reverse Phase HPLC shows >94% purity Compound shows a specific rotation ( $[\alpha]_D$ ) in 10mM	Meets specification: 99.0% Meets specification: $[\alpha]_{D} = -112^{\circ}$ (c=1, 10mM		
		•		
HPLC Optical rotation Karl Fisher titration	Compound shows a specific rotation ( $[\alpha]_D$ ) in 10mM	Meets specification: $[\alpha]_D = -112^{\circ}$ (c=1, 10mM		

Physical appearance

Yellow to pale yellow solid

Meets specification: Yellow solid

Produced by	Signature	Roman
Passed by	Signature	S
	Date	19/09/2023

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