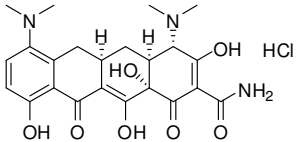




## Certificate of Analysis

<b>Axon Catalogue ID:</b>	3381	<b>Batch Number:</b>	1																								
<b>Product Name:</b>	Minocycline hydrochloride																										
<b>Alternative Name(s):</b>	N.A.																										
<b>IUPAC Name:</b>	(4S,4aS,5aR,12aS)-4,7-Bis(dimethylamino)-3,10,12,12a-tetrahydroxy-1,11-dioxo-1,4,4a,5,5a,6,11,12a-octahydrotetracene-2-carboxamide hydrochloride																										
<b>Structure:</b>		<b>Amount:</b>																									
<b>CAS number(s):</b>	10118-90-8 (parent), 13614-98-7 (HCl (1:1))																										
<b>Molecular Formula:</b>	C <sub>23</sub> H <sub>27</sub> N <sub>3</sub> O <sub>7</sub> .HCl	<b>Molecular Weight:</b>	493.94																								
<b>Batch Molecular Formula:</b>	C <sub>23</sub> H <sub>27</sub> N <sub>3</sub> O <sub>7</sub> .HCl.2H <sub>2</sub> O	<b>Batch Molecular Weight:</b>	529.97																								
<b>Appearance:</b>	Yellow solid	<b>Observed mp:</b>	>135 °C (decomp)																								
<b>TLC (R<sub>f</sub>):</b>	0.29	DCM/MeOH (9:1)																									
<b>Chemical Purity:</b>	99.6%																										
<b>Optical Purity (ee):</b>	Optically pure																										
<b><sup>1</sup>H-NMR:</b>	Analytical data confirm chemical structure																										
<b>Mass Spec:</b>	Analytical data confirm chemical structure																										
<b>Microanalysis:</b>	Calculated: C 52.13, H 6.09, N 7.93; Found: C 51.81, H 6.15, N 7.79																										
<b>Storage Conditions:</b>	Desiccate at -20 °C																										
<b>Solubility Data:</b>	<table><thead><tr><th>Solvent</th><th>Solubility (mg/ml)</th><th>Solubility (mM)</th><th>Remarks</th></tr></thead><tbody><tr><td>Water</td><td>7.3</td><td>13.8</td><td></td></tr><tr><td>0.1N NaOH (aq)</td><td></td><td></td><td>Not Tested</td></tr><tr><td>0.1N HCl (aq)</td><td></td><td></td><td>Not Tested</td></tr><tr><td>DMSO</td><td>6.2</td><td>11.7</td><td>* Warming (40°C)</td></tr><tr><td>EtOH</td><td></td><td></td><td>Not Tested</td></tr></tbody></table>	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks	Water	7.3	13.8		0.1N NaOH (aq)			Not Tested	0.1N HCl (aq)			Not Tested	DMSO	6.2	11.7	* Warming (40°C)	EtOH			Not Tested		
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<b>Remarks:</b>	* Warming (40°C) enhanced solubility.																										
<b>QC Date:</b>	13-04-2021																										

The purity of Axon Ligands is confirmed by HPLC, MS, NMR and/or microanalysis. Analytical data are available upon request. Request can be submitted by e-mail to [info@axonmedchem.com](mailto:info@axonmedchem.com) indicating Catalogue ID and Batch number.

**Caution: Not fully tested. For research purposes only**