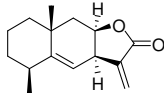




## Certificate of Analysis

<b>Axon Catalogue ID:</b>	3834	<b>Batch Number:</b>	1																								
<b>Product Name:</b>	Alantolactone																										
<b>Alternative Name(s):</b>	N.A.																										
<b>IUPAC Name:</b>	(3aR,5S,8aR,9aR)-5,8a-Dimethyl-3-methylene-3,3a,6,7,8,8a,9,9a-octahydronaphtho[2,3-b]furan-2(5H)-one																										
<b>Structure:</b>		<b>Amount:</b>																									
<b>CAS number(s):</b>	546-43-0																										
<b>Molecular Formula:</b>	C <sub>15</sub> H <sub>20</sub> O <sub>2</sub>	<b>Molecular Weight:</b>	232.32																								
<b>Batch Molecular Formula:</b>	C <sub>15</sub> H <sub>20</sub> O <sub>2</sub>	<b>Batch Molecular Weight:</b>	232.32																								
<b>Appearance:</b>	White solid	<b>Observed mp:</b>	80 °C																								
<b>TLC (R<sub>f</sub>):</b>	0.29	Hex/EtOAc (9:1)																									
<b>Chemical Purity:</b>	98.1%																										
<b>Optical Purity (ee):</b>	Optically pure																										
<b>Optical Rotation (Det.):</b>	[α] <sub>D</sub> = +233.5° with c = 1.29 in EtOH																										
<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 77.55, H 8.68, N 0.00; Found: C 77.50, H 8.96, N <0.10																										
<b>Storage Conditions:</b>	Store 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>0.0</td><td>0.0</td><td>Insoluble</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>23.2</td><td>&gt;100 mM</td><td></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	0.0	0.0	Insoluble	0.1N NaOH (aq)			Not Tested	0.1N HCl (aq)			Not Tested	DMSO	23.2	>100 mM		EtOH			Not Tested		
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<b>Remarks:</b>																											
<b>QC Date:</b>	31-3-2023																										

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**