

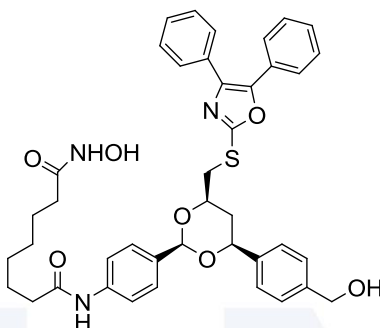


Northeast Business Center

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## Certificate of Analysis



<b>Product Name:</b>	<b>Tubacin</b>
<b>Synonym:</b>	NA
<b>CAS No:</b>	<b>537049-40-4</b>
<b>Prod. No:</b>	CT-TUCN
<b>Lot No:</b>	02
<b>Empirical Mol. Formula</b> <b>Empirical Mol. Wt.</b>	C <sub>41</sub> H <sub>43</sub> N <sub>3</sub> O <sub>7</sub> S 721.9
<b>Solubility</b>	Soluble in DMSO (57.8mg/ml, 80 mM)
<b>Storage</b>	Store at 0 °C (short term), -20 °C (long term), desiccated

<b>Appearance</b>	White Crystalline Powder
<b>Quality Control</b>	MS: [✓] <sup>1</sup> HNMR: [✓] HPLC R: [✓] Chiral HPLC: [✓] Quantitative Elemental Analysis: [✓] C <sub>41</sub> H <sub>43</sub> N <sub>3</sub> O <sub>7</sub> S Calculated: C: 68.22%; H: 6.00%; N: 5.82% Found: C: 67.36%; H: 5.95%; N: 5.77%
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = - 42.3 ° (c 0.442, DMSO)
<b>Chemical Purity</b>	>98.5% (HPLC)
<b>Optical Purity</b>	>99% (Chiral HPLC)