

## CERTIFICATE OF ANALYSIS

<b>Product Name</b>	<b>Mithramycin A</b>
<b>Source</b>	<b>Streptomyces argillaceus</b>
<b>Molecular Formula</b>	<b>C<sub>52</sub>H<sub>76</sub>O<sub>24</sub></b>
<b>Molecular Weight</b>	<b>1085.0</b>
<b>CAS Number</b>	<b>18378-89-7</b>
<b>Lot Number</b>	<b>MT008B</b>
<b>Test</b>	<b>Results</b>
<b>Appearance</b>	<b>Yellow powder</b>
<b>Solubility*</b>	<b>DMSO: Clear yellow solution at 100mg/ml</b>
<b>TLC (NP, CH<sub>2</sub>Cl<sub>2</sub>, methanol 80: 20)</b>	<b>&gt;99%</b>
<b>TLC (NP, EtOAc: methanol 70:30)</b>	<b>&gt;99%</b>
<b>TLC (RP C18, methanol, H<sub>2</sub>O 8:2)</b>	<b>&gt;99%</b>
<b>Detection: Spray with H<sub>2</sub>SO<sub>4</sub> and heat</b>	
<b>HPLC (gradient H<sub>2</sub>O →CH<sub>3</sub>CN, 280nm, flow: 1.2ml/min.)</b>	<b>99.40%</b>
<b>Lambda max</b>	<b>(Methanol) 280nm</b>
<b>Melting point</b>	<b>178 °C</b>

\*Mithramycin A may be soluble in other solvents.

Expiration date: June 2018

June 3, 2015

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