



## CERTIFICATE OF ANALYSIS

<b>PRODUCT:</b>	<b>Piericidin A</b> [Piericidin A1, Shaoguanmycin B, Antibiotic MT 1882-I, Antibiotic SN 198E, Antibiotic IT 143D], C <sub>25</sub> H <sub>37</sub> NO <sub>4</sub> , M.W. 415.6, CAS# [2738-64-9]
<b>PRODUCT NUMBER:</b>	P-1474
<b>LOT NUMBER:</b>	B1957
<b>APPEARANCE:</b>	Pale yellow oil
<b>SOLUBILITY:</b>	Soluble in ethanol, methanol, DMF or DMSO.
<b>SOURCE:</b>	<i>Streptomyces</i> sp. MST-AS5364
<b>PURITY (HPLC):</b>	> 95%
<b>PRODUCT DESCRIPTION:</b>	Piericidin A is the major analogue of a family of pyridyl antibiotics isolated from selected <i>Streptomyces</i> sp. It is a specific, potent inhibitor of NADH-ubiquinone oxidoreductase (Complex I) that binds to ubiquinone binding site(s). Piericidin A inhibits both mitochondrial and bacterial NADH-ubiquinone oxidoreductases, binding close to NUOD-NUOB interface.
<b>STORAGE &amp; HANDLING:</b>	Store at -20°C. Store under inert gas. <b>HYGROSCOPIC!</b> <b><u>WARNING:</u> VERY TOXIC!</b>

CAUTION: For laboratory research & scientific manufacturing use only. Not for human or drug use. The pharmacological and toxicological properties of this product have not been fully investigated. Use caution when handling. Do not use this compound if you are not fully trained or are unaware of the hazards involved.

Verified: DD