



## CERTIFICATE of ANALYSIS

<b>PRODUCT:</b>	<b>Doxorubicin . HCl</b> [DXR . HCl, 14-Hydroxydaunomycin . HCl, Adriamycin . HCl], M.I. 14: 3439, RTECS Q19295900 C <sub>27</sub> H <sub>29</sub> NO <sub>11</sub> . HCl , M.W. 580.0, CAS# [25316-40-9]
<b>PRODUCT NUMBER:</b>	A-1434
<b>LOT NUMBER:</b>	B1647
<b>APPEARANCE:</b>	Red solid
<b>SOLUBILITY:</b>	Soluble in water.
<b>PURITY (TLC):</b>	≥ 95%
<b>DESCRIPTION:</b>	A broad spectrum antitumor agent. Induces DNA damage by intercalating into DNA and inhibiting topoisomerase II. Binds covalently to DNA. Inhibits reverse transcriptase, RNA polymerase and the catalytic activity of Dnmt1. Immunosuppressive. Antineoplastic. Induces apoptosis. Down regulates c-myc and c-jun in doxorubicin-sensitive cells.
<b>STORAGE &amp; HANDLING:</b>	Store at +20°C. Stock solutions are stable for up to 3 months at -20°C. <b><u>WARNING:</u> TOXIC!</b> <b>MAY BE TERATOGENIC! MAY BE MUTAGENIC!</b> <b>MAY BE CARCINOGENIC!</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