

## CERTIFICATE OF ANALYSIS

<b>PRODUCT:</b>	<b>Doxycycline Hydrochloride</b> 6- Deoxy-5-hydroxytetracycline hydrochloride, 6-Deoxyoxytetracycline hydrochloride, Doxytetracycline hydrochloride <b>C<sub>22</sub>H<sub>24</sub>N<sub>2</sub>O<sub>8</sub> · HCl; M.W. 480.9; CAS #: [10592-13-9]</b>
<b>PRODUCT NUMBER:</b>	D-2545
<b>LOT NUMBER:</b>	H1378D
<b>APPEARANCE:</b>	Yellow crystalline powder
<b>SOLUBILITY</b>	Soluble in water or DMSO @ 100mM.
<b>ASSAY</b> (anhydrous, ethanol-free):	884 µg/mg
<b>pH:</b>	2.4
<b>WATER (KF):</b>	2.0%
<b>DESCRIPTION:</b>	Doxycycline hydrochloride is a salt prepared from doxycycline taking advantage of the basic dimethylamino group which protonates and readily forms a salt in hydrochloric acid solutions. The hydrochloride is the preferred formulation for pharmaceutical applications. Like all tetracyclines, doxycycline shows broad spectrum antibacterial and antiprotozoan activity and acts by binding to the 30S and 50S ribosomal subunits, blocking protein synthesis.
<b>STORAGE &amp; HANDLING:</b>	<b>Store desiccated at -20°C.</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: SK