

## Certificate of Analysis

**PRODUCT:** **Tetracycline Hydrochloride EP / USP Grade**  
**C<sub>22</sub>H<sub>24</sub>N<sub>2</sub>O<sub>8</sub>.HCl** , M.W. 480.9, CAS# [64-75-5]

**PRODUCT NUMBER:** T-1240  
**LOT NUMBER:** L1173  
**APPEARANCE:** Yellow crystalline powder  
**IDENTIFICATION (A, B, C):** Passed

	<u>SPECIFICATIONS:</u>	<u>RESULTS:</u>
<b>CRYSTALLINITY:</b>	Meets with specification	Passed
<b>pH:</b>	1.8 - 2.8	2.5
<b>LOSS ON DRYING:</b>	≤ 2.0%	0.3%
<b>POTENCY (dried basis):</b>	≥ 900 µg/mg	978 µg/mg
<b>SPECIFIC ROTATION:</b>	-255° - -240°	-251°

<b>RELATED SUBSTANCES:</b>		
<b>Epitetracycline:</b>	≤ 3.0%	< 3.0%
<b>Anhydrotetracycline:</b>	≤ 0.5%	< 0.5%
<b>4-Epianhydrotetracycline:</b>	≤ 2.0%	0.02%
<b>2-Acetyl-2-decarbamoyl-tetracycline:</b>	≤ 1.5%	< 1.5%

<b>RESIDUAL SOLVENTS:</b>		
<b>1-Butanol:</b>	≤ 5000 ppm	0.1 ppm
<b>Acetone:</b>	≤ 500 ppm	< 500 ppm

**DESCRIPTION:** A protease inhibitor produced by actinomycetes. Inhibits papain, trypsin, Cathepsin A/B and to a small extent plasmin. Antipain is more specific for papain and trypsin than is leupeptin. The inhibitory potency of antipain is 100-fold higher than that of elastatinal. Effective concentration 1-100µM.

**STORAGE & HANDLING:** Store desiccated at RT.

**PROTECT FROM LIGHT & MOISTURE! *WARNING: IRRITANT!***

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: AB