

CERTIFICATE OF ANALYSIS

PRODUCT: **Tetracycline Hydrochloride**
EP/USP Grade
C₂₂H₂₄N₂O₈.HCl , M.W. 480.9, CAS# [64-75-5]

PRODUCT NUMBER: T-1240
LOT NUMBER: E1227
APPEARANCE: Yellow crystalline powder
IDENTIFICATION: Conforms
CRYSTALLINITY: Meets requirements

	<u>SPECIFICATIONS:</u>	<u>RESULTS:</u>
pH:	1.8 - 2.8	2.5
LOSS ON DRYING:	2.0%	0.45%
ASSAY (dried basis):	95.0% to 102.0%	96.7%
POTENCY (dried basis):	Not less than 900 µg/mg	960 µg/mg
SPECIFIC ROTATION:	-240° - -255°	-244°
SULPHATE ASH:	Not more than 0.5%	0.06%
HEAVY METALS:	Not more than 50 ppm	Conforms
BACTERIAL ENDOTOXIN:	Not more than 0.5 IU/mg	<0.5 IU/mg
RELATED SUBSTANCES:		
4-Epitetracycline:	Not more than 3.0%	1.3%
Anhydrotetracycline:	Not more than 0.5%	0.12%
4-Epianhydrotetracycline:	Not more than 0.5%	0.03%
2-Acetyl-2-decarbamoyl-tetracycline:	Not more than 1.5%	0.85%
RESIDUAL SOLVENTS:		
1-Butanol:	Not more than 5000 ppm	Conforms
Acetone:	Not more than 5000 ppm	Conforms
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.	

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STORAGE & HANDLING: Store at +4°C. For long term storage, store at -20°C.

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: KS