A.G. Scientific, Inc.
6450 Lusk Blvd. Suite E102
San Diego, CA
92121

Certificate of Analysis

PRODUCT: **Tetracycline Hydrochloride EP/USP Grade**

$C_{22}H_{24}N_2O_8.HCl$, M.W. 480.9, CAS# [64-75-5]

PRODUCT NUMBER: T-1240

LOT NUMBER: B1659

APPEARANCE: Yellow crystalline powder

IDENTIFICATION: Conforms

CRYSTALLINITY: Meets requirements

	SPECIFICATIONS:	RESULTS:
pH:	1.8 - 2.8	2.5
LOSS ON DRYING:	2.0%	0.37%
ASSAY (on dried basis):	95.0% to 102.0%	96.7%
POTENCY (on dried basis):	Not less than 900 µg/mg	963 µg/mg
SPECIFIC ROTATION:	-240°- -255°	-244°
SULPHATE ASH:	Not more than 0.5%	0.06%

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HEAVY METALS:	Not more than 50 ppm	Conforms
RELATED SUBSTANCES:		
4-Epitetracyline:	Not more than 3.0%	1.3%
Anhydrotetracyline:	Not more than 0.5%	0.12%
4-Epianhydrotetracyline:	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.

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: DD