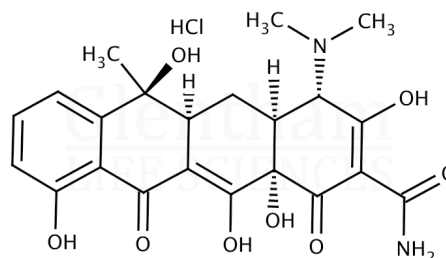


Certificate of Analysis

Product Name	Tetracycline hydrochloride, USP grade
Glentham Code	GP3828
CAS Number	64-75-5
EINECS	200-593-8
MDL Number	MFCD00078142
Batch Number	491WHI
Molecular Weight	480.91
Molecular Formula	$C_{22}H_{24}N_2O_8 \cdot HCl$
Storage Temp.	-20°C



Property	Specification	Batch 491WHI
Physical Description	Yellow powder	Conforms
Identification (IR)	To conform to standard	Conforms
Identification	To conform to USP	Conforms
pH (1% in water)	1.8 - 2.8	2.54
Specific Optical Rotation ($[\alpha]_{20/D}$)	-240.0 - -255.0 ° (c=0.5, 0.1M HCl)	-244°
Loss on Drying	≤ 2.0% (60°C, 2h, vac.)	0.24%
Epitetracycline	≤ 3.0%	1.04%
4-Epianhydrotetracyclin	≤ 2.0%	Not detected
Anhydrotetracycline	≤ 0.5%	0.10%
Crystallinity	To meet the requirements	Conforms
Potency (dried basis)	≥ 900µg/mg ($C_{22}H_{24}N_2O_8 \cdot HCl$)	980
Pharmacopoeia Specification(s)	USP	Conforms to USP

Specification Version	v1.1
Manufacture Date	2020-08-29
Re-Test Date	2028-05-16

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glentham.com or contact us using the details above for the current version of this document.

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