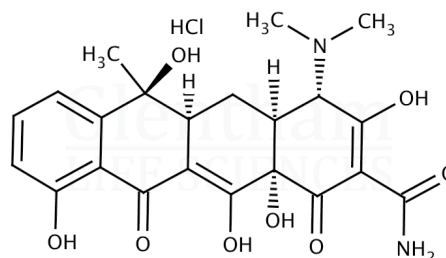


Certificate of Analysis

Product Name	Tetracycline hydrochloride, USP grade
Glentham Code	GP3828
CAS Number	64-75-5
EINECS	200-593-8
MDL Number	MFCD00078142
Batch Number	803XFN
Molecular Weight	480.91
Molecular Formula	$C_{22}H_{24}N_2O_8 \cdot HCl$
Storage Temp.	-20°C



Property	Specification	Batch 803XFN
Physical Description	Yellow powder	Yellow powder
Identification (IR)	To conform to standard	Conforms
Identification	To conform to USP	Conforms
pH (1% in water)	1.8 - 2.8	2.6
Specific Optical Rotation ($[\alpha]_{20/D}$)	-240.0 - -255.0 ° (c=0.5, 0.1M HCl)	-242.9°
Loss on Drying	≤ 2.0% (60°C, 2h, vac.)	0.6%
Epitetracycline	≤ 3.0%	1.0%
4-Epianhydrotetracyclin	≤ 2.0%	≤ 0.5%
Anhydrotetracycline	≤ 0.5%	0.15%
Crystallinity	To meet the requirements	Conforms
Potency (dried basis)	≥ 900µg/mg ($C_{22}H_{24}N_2O_8 \cdot HCl$)	986µg/mg
Pharmacopoeia Specification(s)	USP	Conforms

Specification Version	v1.1
Manufacture Date	2023-06-27
Re-Test Date	2030-09-27

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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