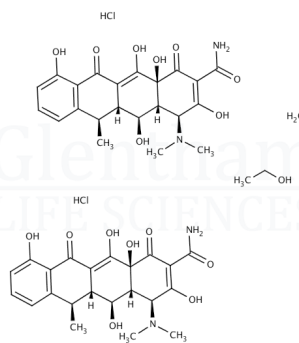


## Certificate of Analysis

Product Name	Doxycycline hyclate
Glentham Code	GA1726
CAS Number	24390-14-5
MDL Number	MFCD07357237
Additional CAS	10592-13-9 (· HCl)
Additional CAS	564-25-0
PubChem SID	310272426
Batch Number	162IAR
Molecular Weight	512.94
Molecular Formula	$C_{22}H_{24}N_2O_8 \cdot HCl \cdot 0.5H_2O \cdot 0.5C_2H_6O$
Storage Temp.	+4°C



Property	Specification	Batch 162IAR
Physical Description	Yellow, crystalline powder, hygroscopic	Yellow crystalline powder
Identification	EP	Conforms
pH (1% solution)	2.0 - 3.0	2.6
Specific Optical Rotation	-105 - -120 °	-110°
Specific Absorbance	300 - 335 (at 349nm)	315
Light-Absorbing Impurities	≤ 0.07 (at 490nm)	0.01
Related Substances	6-Epidoxycycline: ≤ 2.0%	Conforms
	Metacycline: ≤ 2.0%	Conforms
	Any Individual Impurity: ≤ 0.5%	Conforms
Ethanol	4.3 - 6.0 %	4.5%
Heavy Metals	≤ 50ppm	Conforms
Water	1.4 - 2.8 %	2.1%
Sulphated Ash	≤ 0.4%	Conforms
Assay	95.0 - 102.0 % (C <sub>22</sub> H <sub>25</sub> CIN <sub>2</sub> O <sub>8</sub> , anhydrous basis)	97.7%
Pharmacopoeia Specification(s)	EP	Conforms

Specification Version	v1.0
Manufacture Date	2021-02-10
Re-Test Date	2027-02-26

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](http://www.glentham.com) or contact us using the details above for the current version of this document.

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