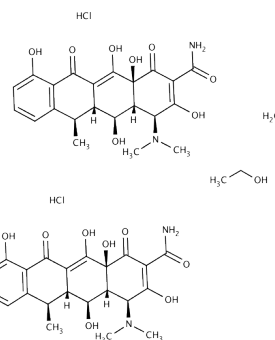


## Product Specification

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

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

Specification Version : v1.0  
 Date Created : 2014-10-06

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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