



## Specification

### Doxycycline Hydrochloride

**CAS Number:** 10592-13-9  
**Molecular Formula:** C<sub>22</sub>H<sub>24</sub>N<sub>2</sub>O<sub>8</sub> • HCl  
**Molecular Weight:** 480.9  
**Storage:** 2°C - 8°C

Test	Specification
Appearance:	Yellow crystalline powder
Absorbance (349nm):	300 - 335
Ethanol:	4.3 - 6.0 %
Heavy Metals:	≤ 50 ppm
Identification (A, B, C):	Pass Test
Light Absorbing Impurities (490nm):	≤ 0.5
pH:	2.0 - 3.0
Potency :	800 - 920 µg/mg
Purity:	95.0 - 102.0 %
Related Compound (6-Epidoxycycline):	≤ 2.0 %
Related Substance (Any Other Impurity):	≤ 0.5 %
Specific Optical Rotation:	-105 - -120 °
Sulfated Ash:	≤ 0.4 %
Water:	1.4 - 2.8 %

Approved:

John Grubb, PhD  
Gojira Fine Chemicals  
Quality Manager  
Tel: 440-252-5397, Fax: 888-211-5523  
[docsupport@gojirafc.com](mailto:docsupport@gojirafc.com)

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