



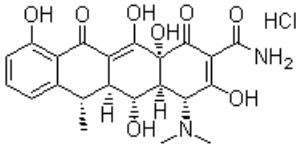
HANGZHOU DINGYAN CHEM CO.,LTD

TEL: 86-571-87157530,86465881,88025800, FAX:86-571-87156470

E-Mail:sales@dingyanchem.com,Web: www.dingyanchem.com

CERTIFICATE OF ANALYSIS

NO: DYC0917022106

Product Name	Doxycycline hyclate
CAS Number	10592-13-9
Molecule Formula	C ₂₂ H ₂₄ N ₂ O ₈ ·HCl
Molecule Structure	
Batch Quantity	1000 KGS
Batch Number	1610242
Packing	25 KG/DRUM
Mfg. & Exp. Date	2016-10-24 & 2020-10-23
Testing Date	2016-10-28

Items	Standard	Result
Appearance	Yellow or yellowish crystalline powder	Conform
Solubility	Freely soluble in water & in methanol; Sparingly soluble in ethanol & in acetone; Practically insoluble in chloroform	Conform
Identification	The retention time of sample in the main peaks should correspond to that of the ref. standard	Conform
	Sulphuric acid reaction should be yellow	Conform
	Chloride reaction should be positive	Conform
Water	1.4~2.8%	2.2%
PH value	2.0~3.0	2.5
Specific rotation	-120~-105°	-110°
Specific absorbance	300~335(at λ =349nm)	323

**HANGZHOU DINGYAN CHEM CO.,LTD**

TEL: 86-571-87157530,86465881,88025800, FAX:86-571-87156470

E-Mail:sales@dingyanchem.com,Web: www.dingyanchem.com

Sulfated ash	≤0.4%	0.08%
Heavy metals	≤50ppm	<50ppm
Light-absorbing impurities	≤0.07 (at λ =490nm)	0.01
Ethanol	4.3~6.0% (m/m)	4.8%
Related substances	6-Epidoxycycline ≤2.0%	1.9%
	Metacycline ≤2.0%	N. D.
	4-Epidoxycycline ≤0.5%	N. D.
	3-Epi-6-epidoxycycline ≤0.5%	N. D.
	Oxytetracycline ≤0.5%	N. D.
	2-Acety-2-decarbamoxyldoxycycline ≤0.5%	0.4%
	Any other impurity ≤0.5%	N. D.
Assay	95.0~102.0% (calculated as C ₂₂ H ₂₅ ClN ₂ O ₈ on dried basis)	97.5%
Storage	Keep in tight container; Avoid exposure to sunlight.	
Shelf life	4 years	
Conclusion	This product meets the requirements of EP8.0/BP2014.	

Hangzhou Dingyan Chem Co., Ltd.

QUALITY CONTROL *Lucy Tang*

CHECK: 姚仙娟

INSPECTOR: 刘清风