



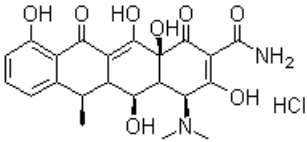
HANGZHOU DINGYAN CHEM CO.,LTD

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

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

CERTIFICATE OF ANALYSIS

NO: DYC091701116

Product Name	Doxycycline Hyclate
CAS Number	10592-13-9
Molecule Formula	$C_{22}H_{24}N_2O_8 \cdot HCl$
Molecule Structure	
Batch Quantity	500 KGS
Packing	25 KG/DRUM
Batch Number	201610147
Manuf. & Exp. Date	2016-10-14 & 2020-10-13
Testing Date	2016-10-18

Item	Standard	Result
Appearance	Yellow to yellowish crystalline powder	Conform
Solubility	Soluble in water & in methanol; Slightly soluble in ethanol & in acetone	Conform
Identification	HPLC: the retention time in the main peaks of the sample should correspond to that of the ref. standard	Almost the same
	IR: the spectrum of sample should correspond to that of the ref. standard	Almost the same
	Maximum absorption at $\lambda = 269 \sim 354 \text{ nm}$ Minimum absorption at $\lambda = 234 \sim 296 \text{ nm}$	Conform
	Positive reaction	Conform
Specific rotation	$-105 \sim -120^\circ$	-108°
Water	1.5 ~ 3.0%	2.3%



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PH value	2.0~3.0	2.5
Loss on drying	≤0.2%	0.05%
Heavy metals	≤200ppb	<200ppb
Related substances	Should conform	Conform
Residual solvents	Ethanol NLT4.3%; NMT6.0%	5.3%
Assay	88.0~94.0%(on dried basis)	91.3%
Conclusion	This product meets the requirements of CVP2015.	

QUALITY CONTROL: 

CHECK:姚仙娟

INSPECTOR:刘清风