



Certificate of Analysis

Doxycycline Hyclate BP

Catalog Number: DH1005
Lot Number: 1120803
CAS Number: 24390-14-5
Molecular Formula: $C_{22}H_{24}N_2O_8 \cdot HCl \cdot 0.5H_2O \cdot 0.5C_2H_6O$
Molecular Weight: 512.94
Storage: 15°C - 30°C
Date of Manufacture: September 27, 2018
Retest Date: September 26, 2020

Test	Specification	Result
Appearance	Yellowish Crystalline Powder	Conforms
Identification (IR)	To match standard	Conforms
Assay	95 – 102%	98%
Specific Absorbance (349nm)	300-335	311
Specific Rotation	-105° to -120°	-112°
Moisture	1.4 – 2.8%	1.9%
Sulfated Ash	≤ 0.4%	< 0.4%
Acidity	2.0 – 3.0	2.5
Light-absorbing Impurities (490nm)	≤ 0.07	0.01
Related substances	Metacycline ≤ 2.0% 6-epidoxycycline ≤ 2.0% Any other impurity ≤ 0.5%	< 2.0% < 2.0% < 0.5%
Heavy Metals	≤ 50ppm	< 50ppm
Ethanol	4.3 – 6.0%	4.8%
This batch meets the specifications for BP2012.		

Approved by:

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Date: November 20, 2018