



CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-204734
Lot Number: SAMPLE
Product Name: Doxycycline Hyclate
CAS Number: 24390-14-5
Molecular Formula: $C_{22}H_{24}N_2O_8 \cdot HCl \cdot 1/2H_2O \cdot 1/2C_2H_6O$
Molecular Weight: 512.94

Test	Specification	Result
Appearance	Yellowish crystalline powder	Complies
Assay	800-920 ug/mg	852 ug/mg
Purity (HPLC)	$\geq 97\%$	98.8%
pH	2.0-3.0	2.2
Related Substances	4-Epidoxycycline $\leq 0.5\%$ Methacycline $\leq 1.0\%$ 2-Acetyl-2decarbomoyldoxycycline $\leq 0.5\%$ 6-Epidoxycycline $\leq 2\%$	0.09% 0.09% 0.34% 0.71%
Total Impurities	$\leq 3.0\%$	1.2%
Ethanol	4.3-5.5%	4.85%
Water Content	1.4-3.0%	1.9%

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.

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