



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-337691
Lot Number: SAMPLE
Product Name: Doxycycline hydrochloride
CAS Number: 100929-47-3
Molecular Formula: $C_{22}H_{24}N_2O_8 \cdot HCl$
Molecular Weight: 480.9

Test	Specification	Result
Appearance	A yellow crystalline powder; hygroscopic	Complies
Assay	88.0 - 94.0%	91.0%
Identification	Positive	Complies
pH	2.0 - 3.0	2.48
Absorbance	300 - 330	321
Optical Rotation	$\sim -105^\circ - \sim -120^\circ$	-108°
Heavy Metals	≤ 50 ppm	< 50 ppm
Related Substances	(1) Methacycline HCl: $\leq 2.0\%$ (2) 6-eip doxycycline: $\leq 2.0\%$ (3) Other: $\leq 0.5\%$	(1) Methacycline HCl: 0.40% (2) 6-eip doxycycline: 1.05% (3) Other: 0.25%
Ethanol	4.3 - 6.0%	4.5%
Sulfated Ash	$\leq 0.4\%$	Complies
Water Content	1.4% - 2.8%	2.00%

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.

Santa Cruz Biotechnology, Inc. 800.457.3801 831.457.3800 fax 831.457.3801 Europe +00800 4573 8000 49 62221 4503 0 www.scbt.com