



# CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-200923  
Lot Number: SAMPLE  
Product Name: Doxorubicin hydrochloride  
CAS Number: 25316-40-9  
Molecular Formula:  $C_{27}H_{29}NO_{11} \cdot HCl$   
Molecular Weight: 580.00

Test	Specification	Result
Appearance	Orange red powder	Complies
Assay (HPLC)	98 - 102% (as dry basis)	99.1%
Identification (Infrared Spectrum)	Conforms to structure	Complies
pH	4.0 - 5.5	5.1
Solubility	Soluble in water, in isotonic sodium chloride solution and in methanol.	Complies
Related Substances	Doxorubicinone $\leq 0.5\%$ Daunorubicin $\leq 0.5\%$ Epirubicin HCl $\leq 0.5\%$ Any other impurity $\leq 0.5\%$ Total impurities $\leq 2.0\%$	0.07% Negative Negative 0.12% 0.15%
Solvent residue	Acetone and Ethanol $\leq 2.5\%$ Acetone $\leq 0.5\%$ Methanol $\leq 0.3\%$ Dichloromethane $\leq 0.06\%$	0.32% 0.43% Negative Negative
Water Content	$\leq 4.0\%$	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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