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Certificate of Analysis

Catalogue Number	22133
Product	Doxorubicin hydrochloride
Lot Number	002197-20210505
	Hydroxydaunorubicin hydrochloride
CAS Number	25316-40-9
Molecular Formula	C ₂₇ H ₂₉ NO ₁₁ •HCl
Molecular Weight	579.98

Appearance	Orange-red or red crystalline powder
Clarity & Color	Clarity : < 1
Solubility	Soluble in water and methanol, slightly soluble in ethanol, practically insoluble in acetone
Water Content (Karl Fisher)	1.47%
pH	5.1
Optical Rotation	[α] ²⁰ _D = 267 °
Residual Solvents	Acetone : 0.135% Acetone + Ethanol : 1.08% Methanol : 0.136% Dichloromethane : Not detected
Bacterial Endotoxins	< 2 U/mg
Related Substances	Doxorubicinone : Not detected Daunorubicin : Not detected Daunorubicinone : ≤ 0.5% Any other unknown impurity : 0.30% Total impurities : 0.68%
Assay (anhydrous basis)	99.2%
Grade	Meets USP specifications
Storage	Store at 0 - 8 °C
Additional Information	Identification A & B : Passes test

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Remarks

See material safety data sheet for additional information

For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier



Bala Kumar
Quality Control Manager