



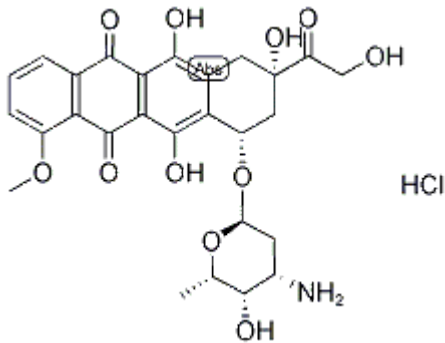
HANGZHOU DINGYAN CHEM CO.,LTD

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CERTIFICATE OF ANALYSIS

NO: DYC031702031

Product name	Doxorubicin hydrochloride (USP39)
CAS Number	25316-40-9
Molecule Structure	
Molecule Formula	C ₂₇ H ₃₀ ClN ₀ O ₁₁
Batch No.	DYC20170212
Manuf. Date&Exp. date	2017-02-12
Testing Date	2017-02-15

Items	Standard	Result
Appearance	Orange-red crystalline powder	confirm
Identification	HPLC , IR, Chloride	confirm
Crystallinity	Meets the requirements	confirm
Water	≤4.0%	0.59%
PH	4.0- 5.5	5.4
Residual solvents	Methanol≤0.3% Ethanol≤1.0% Acetone≤0.5% Dichloromethane≤0.06% Dioxane≤0.038%	0.03% 0.97% 0.32% ND ND
Doxorubicinone	≤0.5%	0.18%
Daunorubicinone	≤0.5%	ND
Daunorubicin	≤0.5%	ND
Any other impurity	≤0.5%	0.18%
Total impurities	≤2.0%	0.68%
Assay	98.0%-102.0%	98.1%
Conclusion	It complies with USP39 Standard.	

QUALITY CONTROL
Hangzhou Dingyan Chem Co., Ltd.
Quality Control
Signature(s)

CHECK: 姚仙娟

INSPECTOR: 刘清风

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