



CERTIFICATE OF ANALYSIS

DAUNARUBICIN HYDROCHLORIDE

ITEMS	SPECIFICATIONS	RESULTS
Appearance	Orange Red Crystalline Hygroscopic Powder	Conforms
Identification	IR, HPLC, Deposition From Silver Nitrate	Conforms
Ph	4.5~6.5	5.5
Water	≤3.0%	0.95%
Related Substance		
Any Other Impurity	≤1.5%	1.05%
Total Impurities	≤3.0%	2.10%
Residual Solvents		
Both Methanol & Ethanol	≤0.2%	Conforms
Butyl Alcohol	≤1.0%	
Acetone	≤0.5%	
Chloroform	≤0.006%	
Bacterial Endotoxins	≤4.3USP EU/Mg	Conforms
Assay (HPLC)	98.0~102.0%	99.5%