

Certificate of Analysis



Product Identification		Chemical Structure
Catalog number	HB4187	
Compound name	Epirubicin hydrochloride	
Chemical name	(8S,10S)-10-[(3-Amino-2,3,6-trideoxy-?-L-arabino-hexopyranosyl)oxy]-7,8,9,10-tetrahydro-6,8,11-trihydroxy-8-(2-hydroxyacetyl)-1-methoxy-5,12-naphthacenedione hydrochloride	
Batch number	E1099-1-1	
Batch molecular formula	$C_{27}H_{29}NO_{11} \cdot HCl \cdot 1.1 H_2O$	
Batch molecular weight	599.80	
Method	QC requirement	QC Result
HPLC	Reverse Phase HPLC shows >98% purity	Meets specification: 99.9%
NMR	1H NMR in DMSO at 400 MHz consistent with structure	Meets specification
Microanalysis	Elemental analysis is within 0.4% for the batch molecular formula	Meets specification
TLC	TLC analysis in 72:28:4:2 $CHCl_3$:MeOH:H ₂ O:formic acid shows one spot under uv	Meets specification: $R_f=0.4$
Physical appearance	Orange solid	Meets specification: Orange solid
Solubility	Soluble in DMSO (100 mM)	Meets specification

Produced by

Signature

Passed by

Signature

Date

05-06-19

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.