



CERTIFICATE OF ANALYSIS



Date: 30-01-2026

Product Name	Daunorubicin EP Impurity D		
Chemical Name	(8S,10S)-10-[(3-Amino-2,3,6-trideoxy- β -D-lyxo-hexopyranosyl)oxy]-6,8,11-trihydroxy-8-(hydroxyacetyl)-1-methoxy-7,8,9,10-tetrahydrotetracene-5,12-dione hydrochloride ; doxorubicin		
Structure	<p>The chemical structure shows a complex polycyclic system. It features a tricyclic core with a fused ring system. Attached to the core are a quinoline ring, a pyridine ring, and a pentose sugar moiety (D-lyxose). The sugar is linked via its C-3 position to the C-10 position of the core. The core also contains a hydroxyl group at C-8, a methoxy group at C-1, and a hydroxyacetyl group at C-11. The pentose sugar is shown with its characteristic alpha and beta anomers, and the C-3 position is highlighted with an NH₂ group.</p>		
Batch No.	-	CAS No.	25316-40-9
Analysis Date	-	Retest Date	2
Mol. Formula	C ₂₇ H ₂₉ NO ₁₁	Molecular Wt.	543.5 : 36.5
Long term Storage Condition	Store at 2-8 °C in well closed container		
Handling and Transit Condition	25-30 °C in well closed container		

Test	Result
Appearance	-
Solubility	-
1H-NMR	Conforms to structure
MASS	Conforms to structure
Chromatographic Purity	>90%

Note: This material should be used for research purpose and not for human or animal consumption. Any patent applicable for this product in any country is not applicable for this analytical standard/research chemical.

	Prepared By	Checked By	Approved By
Signature			
Date			

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