

## CERTIFICATE OF ANALYSIS

Date: 11-02-2026

Product Name	9-Carboxy Doxorubicin Impurity		
Chemical Name	(2S,4S)-4-(((2R,4S,5S,6S)-4-Amino-5-hydroxy-6-methyltetrahydro-2H-pyran-2-yl)oxy)-2,5,12-trihydroxy-7-methoxy-6,11-dioxo-1,2,3,4,6,11-hexahydrotetracen-2-carboxylic acid hydrochloride		
Structure	<p>The chemical structure shows a complex polycyclic system. It features a central tetracyclic core with a fused pyran ring. The core is substituted with a 2-hydroxy-2-methylpropyl group (an isopropenylidene group), a 4-hydroxy-4-methylbutyl group, and a 12-hydroxy-12-methylpropyl group. The core is further substituted with a 7-methoxy group and a 6,11-dioxo group. The structure is completed with a 9-carboxylic acid group and a 4-amino group.</p>		
Batch No.	-	CAS No.	58199-96-5
Analysis Date	-	Retest Date	7
Mol. Formula	C <sub>26</sub> H <sub>27</sub> NO <sub>11</sub> : HCl	Molecular Wt.	529.5 : 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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