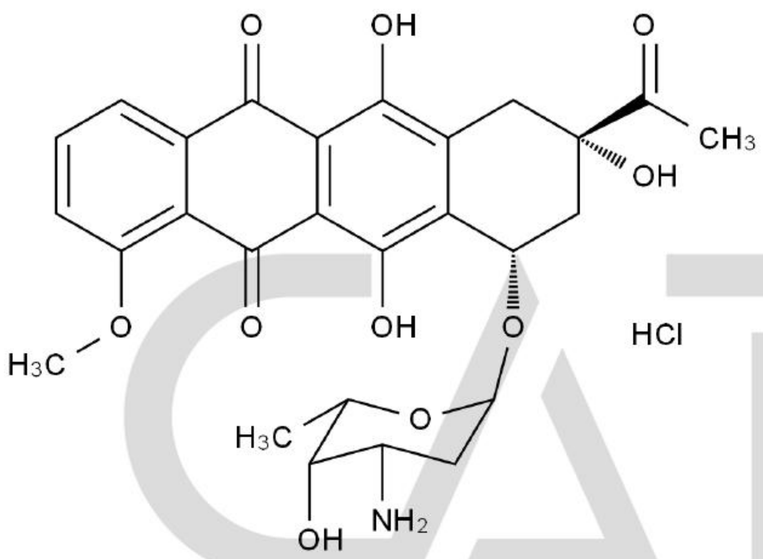
Certificate of Analysis

Reference Material & Standard

Product Name:	Daunorubicin HCl	**Catalogue Number:**	C4X-19377
Synonyms:	N/A	**Lot Number:**	0629-RD-0019
CAS Number:	23541-50-6	**Expiry Date:**	Sep 02, 2030
Molecular Formula:	$C_{27}H_{29}NO_{10}$ HCl	**Storage:**	-20°C±5°C Protected from light and Sealed
Molecular Weight:	527.52 36.46	**Shipping Condition:**	Shipping with Ice Packs

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Red Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	98.838%
Residue on Ignition	TGA	0.8964%
Loss on Drying	TGA	0.8666%
Assay	Mass Balance	97.1%

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Comment:

The calculation of the mass balance method follows the formula (calculated on the non-dried basis):
*Assay (%) = (100%-Residue on Ignition-Loss on Drying) * Purity HPLC (%) /100%*
Residue on Ignition and Loss on Drying are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by: Koji Date: Sep 03, 2026

Reviewed by: Lisa Date: Sep 03, 2026

Approved by General Manager: David Date: Sep 03, 2026

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