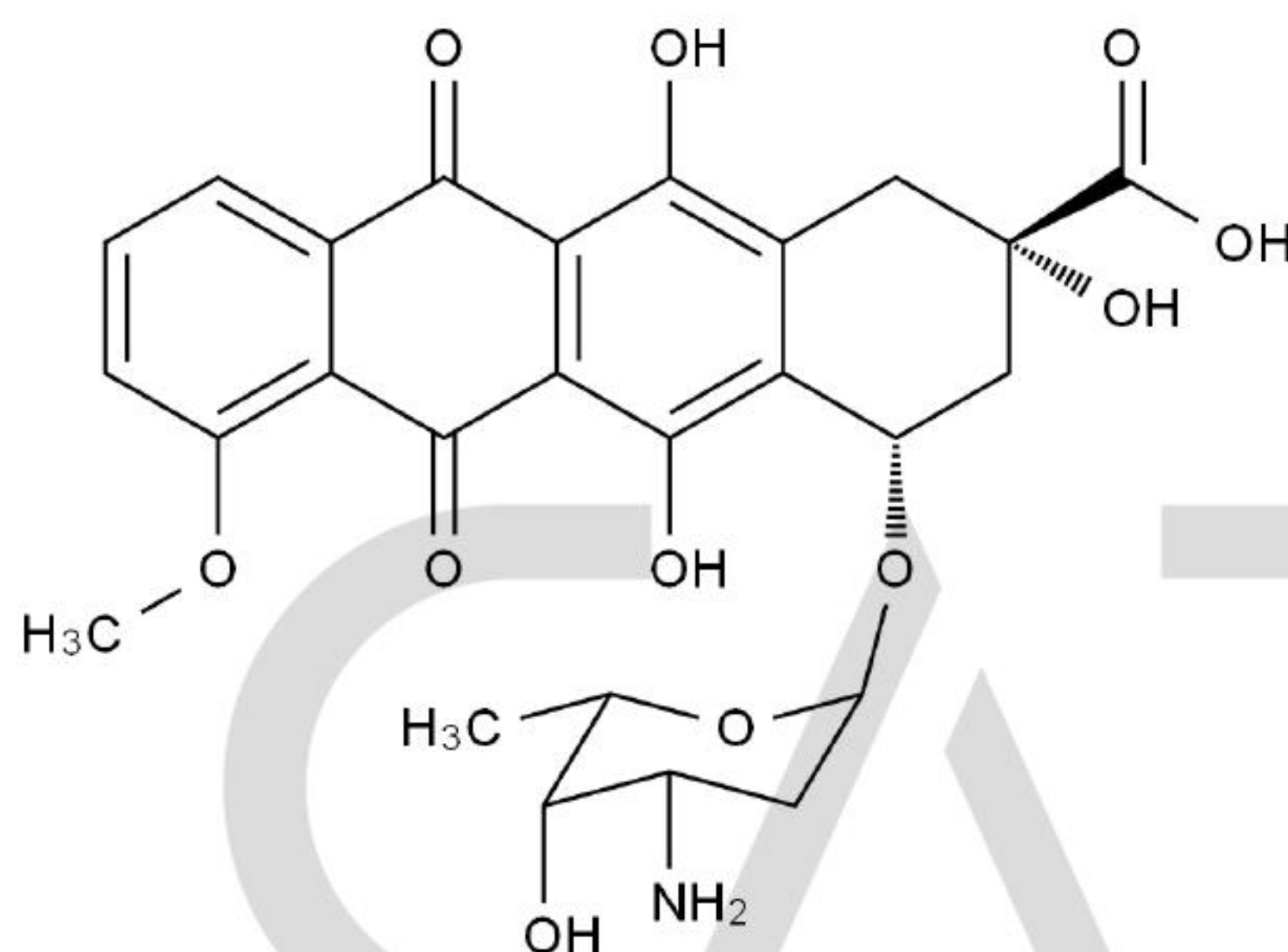


Certificate of Analysis

Reference Material & Standard

Product Name:	Doxorubicin Impurity 3	Catalogue Number:	C4X-20333
Synonyms:	N/A	Lot Number:	0401-RH-0066
CAS Number:	69429-21-6	Expiry Date:	Mar 31, 2030
Molecular Formula:	C ₂₆ H ₂₇ NO ₁₁	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	529.49	Shipping Condition:	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Black Solid
Identification	LCMS&IR&HNMR	Confirmed
Purity	HPLC	97.853%
Residue on Ignition	TGA	0.0064%
Loss on Drying	TGA	7.5749%
Assay		90.4%

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:

Koi

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Sep 20, 2026

Date: Sep 20, 2026

Date: Sep 20, 2026



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