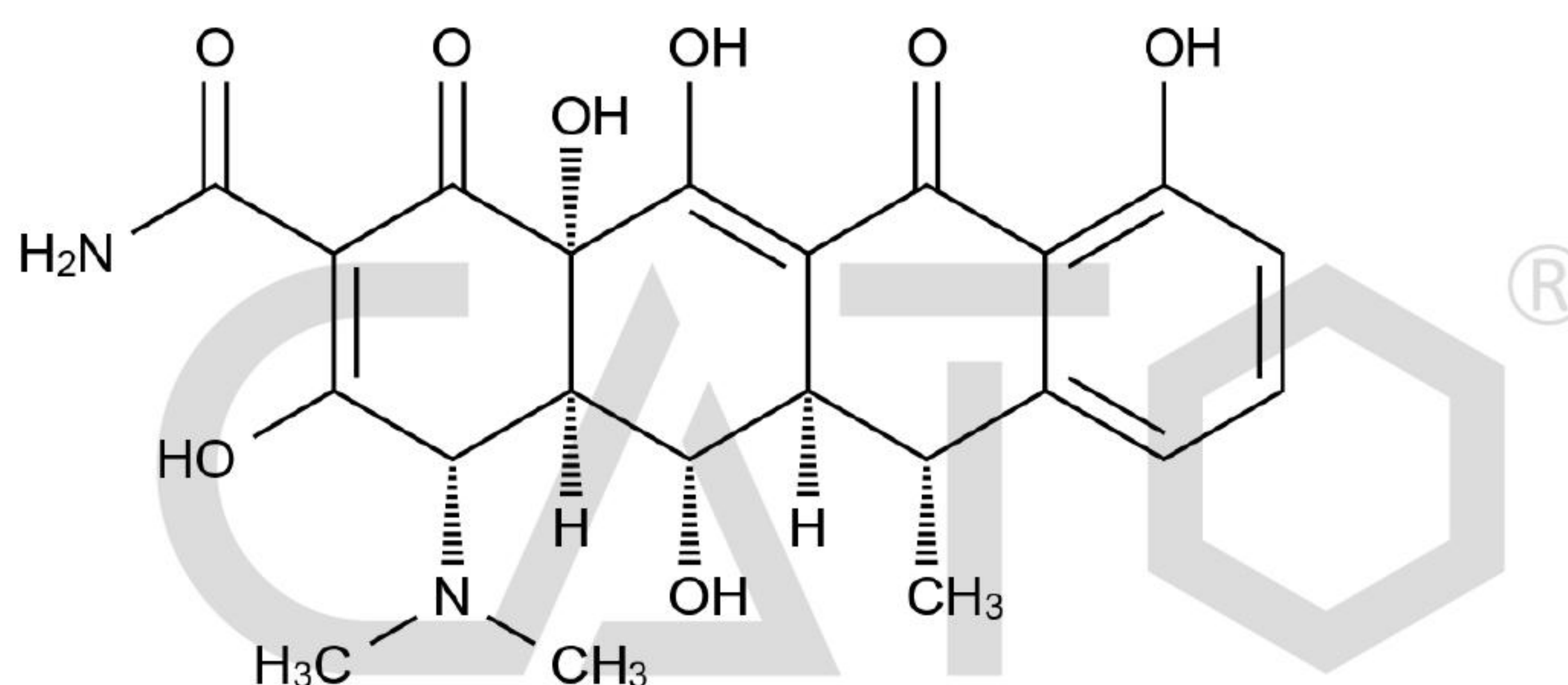


Certificate of Analysis

Reference Material & Standard

Product Name:	Doxycycline	Catalogue Number:	CCHM700554
Synonyms:	N/A	Lot Number:	0410-RH-0089
CAS Number:	564-25-0	Expiry Date:	Apr 19, 2030
Molecular Formula:	C ₂₂ H ₂₄ N ₂ O ₈	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	444.43	Shipping Condition:	Shipping at Room Temperature
Solubility:	Methanol	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Yellow Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	97.840%
Loss on Drying	TGA	3.8751%
Assay		94.0%
Uncertainty		±0.6%

Comment:

1. The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Loss on Drying}) * \text{Purity HPLC (\%)} / 100\%$$

Loss on Drying is considered as absolute effect, HPLC purity is considered as relative effect.

2. The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by:

Nice

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Apr 20, 2026

Date: Apr 20, 2026

Date: Apr 20, 2026



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