

Certificate of Analysis

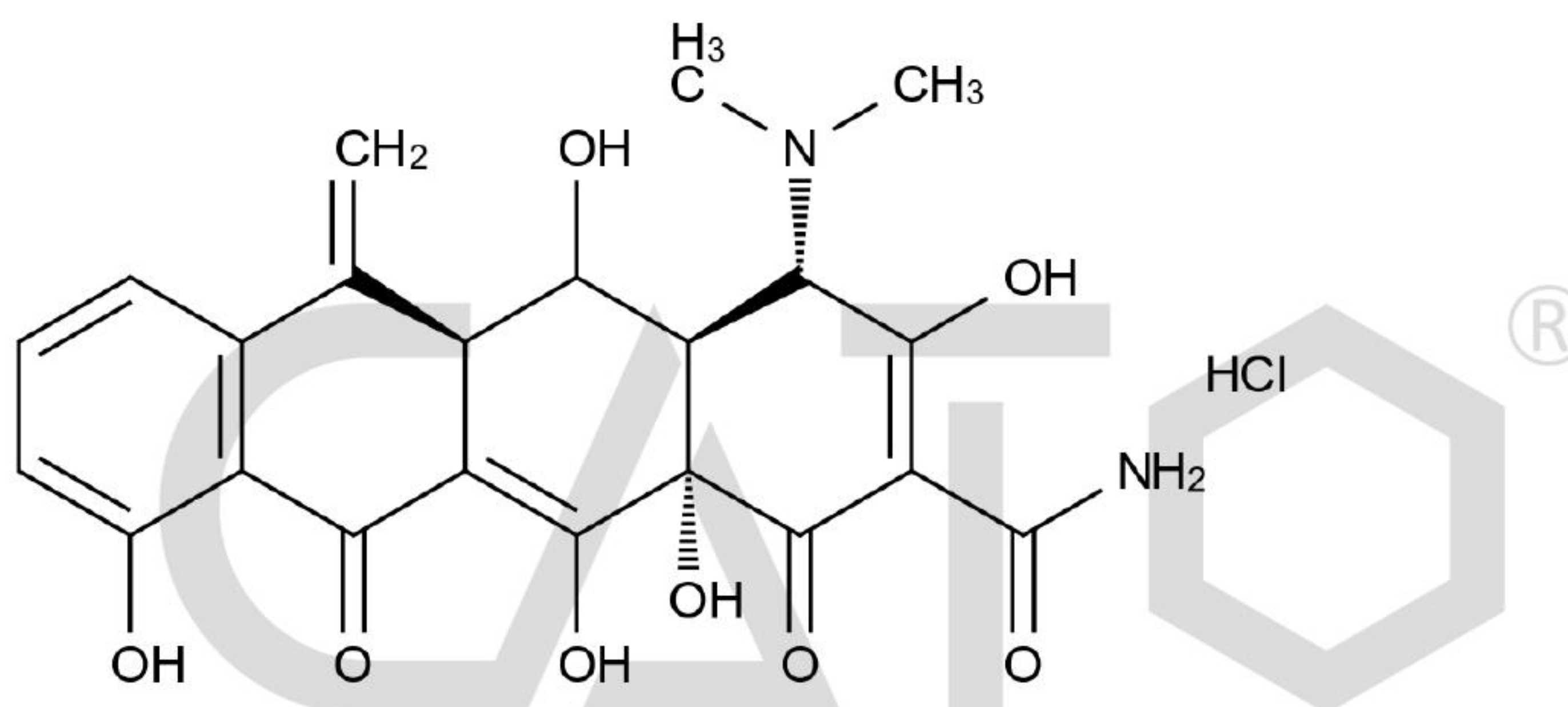
Reference Material & Standard

Product Name:	Metacycline Hydrochloride	Catalogue Number:	CCAD300304
Synonyms:	N/A	Lot Number:	1-F-1AA
CAS Number:	3963-95-9	Expiry Date:	Sep 25, 2026
Molecular Formula:	C ₂₂ H ₂₂ N ₂ O ₈ HCl	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	442.42 36.46		

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Yellow Powder
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	98.485%
Water Content	Karl Fischer	1.1401%
Assay		97.4%
Uncertainty		±2.0%

Comment:

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

$$\text{Assay (\%)} = (100\% - \text{Water Content}) * \text{Purity HPLC (\%)} / 100\%$$

Water Content 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:

Debia

Reviewed by:

Xenia

Approved by General Manager:

David

Date: Sep 26, 2022

Date: Sep 27, 2022

Date: Sep 27, 2022



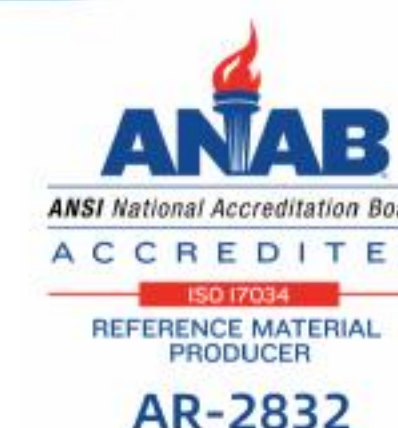
Add: 3rd Floor, Building B, No.179, Guangpu Rd East, Huangpu District, Guangzhou, China

Tel: +86-20-81960175

Email: supports@cato-chem.com

Web: <https://www.cato-chem.com>

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