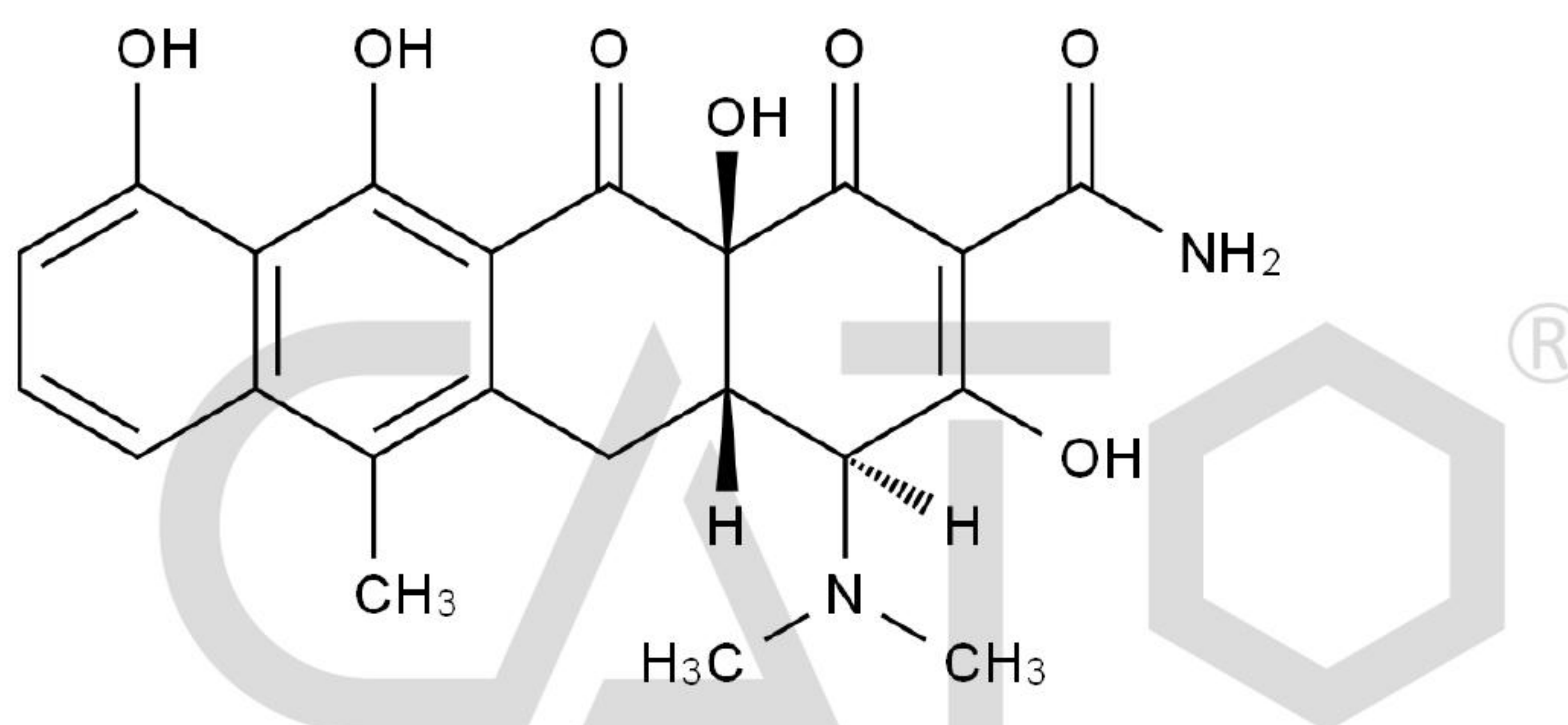


# Certificate of Analysis

## Reference Material & Standard

|                           |                                                               |                            |                                           |
|---------------------------|---------------------------------------------------------------|----------------------------|-------------------------------------------|
| <b>Product Name:</b>      | Tetracycline EP Impurity C                                    | <b>Catalogue Number:</b>   | C4X-23313                                 |
| <b>Synonyms:</b>          | N/A                                                           | <b>Lot Number:</b>         | 0507-RG-0043                              |
| <b>CAS Number:</b>        | 1665-56-1                                                     | <b>Expiry Date:</b>        | Mar 01, 2030                              |
| <b>Molecular Formula:</b> | C <sub>22</sub> H <sub>22</sub> N <sub>2</sub> O <sub>7</sub> | <b>Storage:</b>            | -20°C±5°C Protected from light and Sealed |
| <b>Molecular Weight:</b>  | 426.42                                                        | <b>Shipping Condition:</b> | Shipping with Ice Packs                   |
| <b>Solubility:</b>        | Water                                                         |                            |                                           |

Chemical Structure:



| Test Items     | Method            | Results      |
|----------------|-------------------|--------------|
| Appearance     | Visual inspection | Yellow Solid |
| Identification | LCMS&CNMR&HNMR    | Confirmed    |
| Purity         | HPLC              | 97.150%      |
| Loss On Drying | TGA               | 3.6420%      |
| Assay          |                   | 93.6%        |

## Comment:

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

Assay (%) = (100% - Loss On Drying) \* Purity HPLC (%) / 100%

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

## Signature:

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Reviewed by:

*Hinlam*

Approved by General Manager:

*David*

Date: Mar 02, 2026

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