

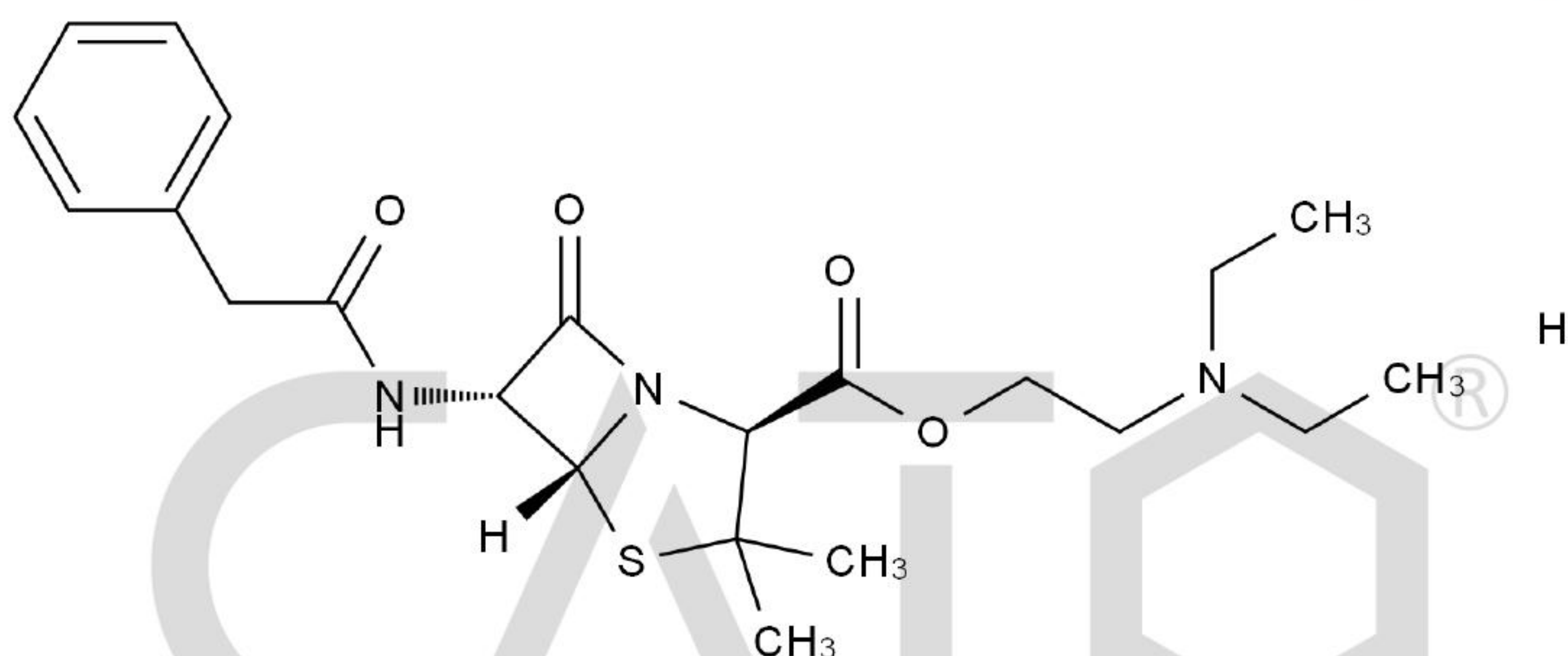
# Certificate of Analysis

## Reference Material & Standard

|                    |                                                                    |                   |                                           |
|--------------------|--------------------------------------------------------------------|-------------------|-------------------------------------------|
| Product Name:      | Penethacillin Hydroiodide                                          | Catalogue Number: | C4X-1991                                  |
| Synonyms:          | N/A                                                                | Lot Number:       | 0205-RF-0065                              |
| CAS Number:        | 808-71-9                                                           | Expiry Date:      | Feb 19, 2027                              |
| Molecular Formula: | C <sub>22</sub> H <sub>31</sub> N <sub>3</sub> O <sub>4</sub> S HI | Storage:          | 2°C ~ 8°C Protected from light and Sealed |
| Molecular Weight:  | 433.56 127.91                                                      | Warning:          |                                           |



Chemical Structure:



| Test Items          | Method            | Results         |
|---------------------|-------------------|-----------------|
| Appearance          | Visual inspection | Off-White Solid |
| Identification      | LCMS&HNMR         | Confirmed       |
| Purity              | HPLC              | 99.802%         |
| Residue on Ignition | TGA               | 0.5791%         |
| Loss On Drying      | TGA               | 0.0240%         |
| Assay               |                   | 99.2%           |

## Comment:

The calculation of the 100% 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:

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*David*

Date: Feb 20, 2024

Date: Feb 20, 2024

Date: Feb 20, 2024

