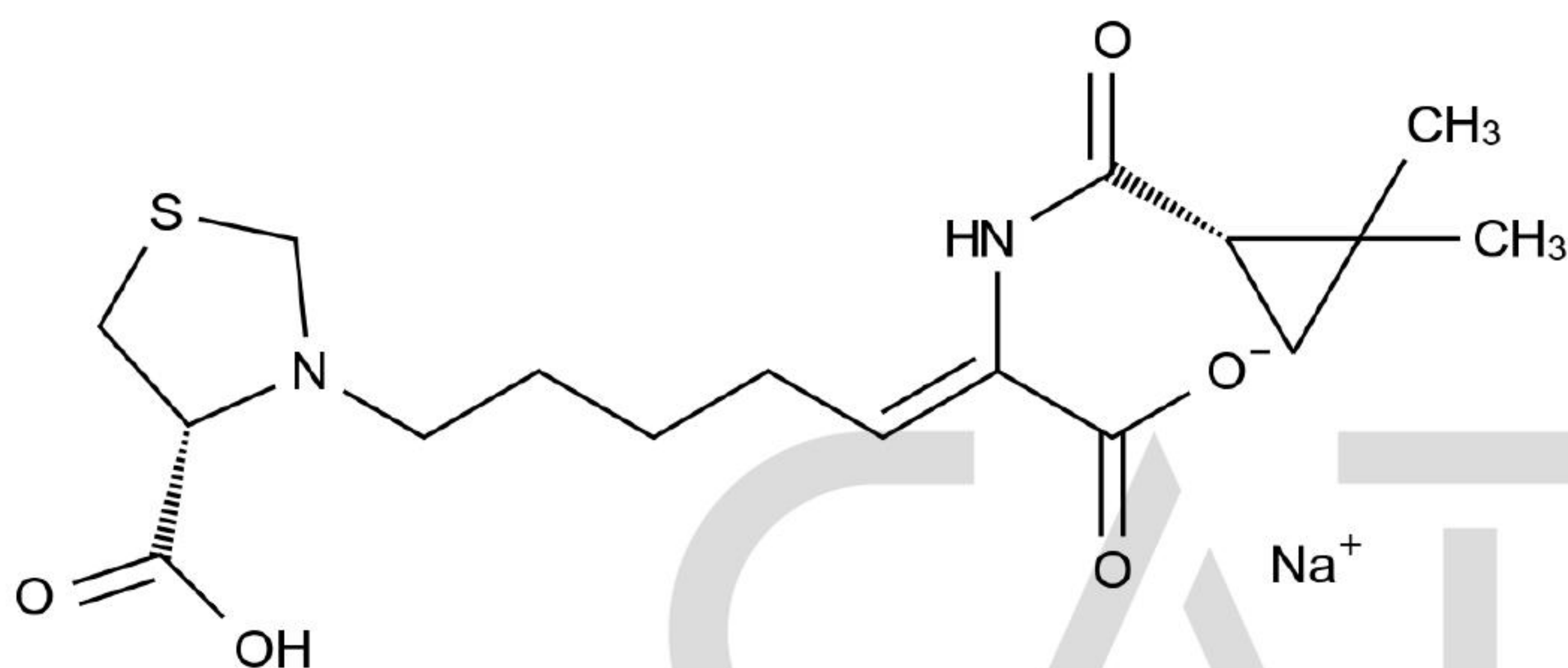


# Certificate of Analysis

## Reference Material & Standard

|                            |                                                                    |                          |                                           |
|----------------------------|--------------------------------------------------------------------|--------------------------|-------------------------------------------|
| <b>Product Name:</b>       | Cilastatin Impurity 15 Sodium salt                                 | <b>Catalogue Number:</b> | C4X-196015                                |
| <b>Synonyms:</b>           | N/A                                                                | <b>Lot Number:</b>       | 1025-RE-0003                              |
| <b>CAS Number:</b>         | N/A                                                                | <b>Expiry Date:</b>      | Oct 15, 2026                              |
| <b>Molecular Formula:</b>  | C <sub>17</sub> H <sub>25</sub> N <sub>2</sub> O <sub>5</sub> S Na | <b>Storage:</b>          | 2°C ~ 8°C Protected from light and Sealed |
| <b>Molecular Weight:</b>   | 369.46 22.99                                                       |                          |                                           |
| <b>Chemical Structure:</b> |                                                                    |                          |                                           |



| Test Items        | Method            | Results                                                               |
|-------------------|-------------------|-----------------------------------------------------------------------|
| Appearance        | Visual inspection | White to Off-White Solid                                              |
| Identification    | LCMS&IR&HNMR      | Confirmed                                                             |
| Purity            | HPLC              | 97.9591%                                                              |
| Water Content     | Karl Fischer      | 6.00%                                                                 |
| Residual Solvents | NMR               | Not detected in NMR                                                   |
| Optical Rotation  |                   | [α] <sub>D</sub> <sup>25.0</sup> (c=0.31, CH <sub>3</sub> OH): -31.5° |
| Assay             |                   | 92.1%                                                                 |

## Comment:

The calculation of the 100% method follows the formula (calculated on the non-dried basis):

Assay (%) = (100% - Water Content - Residual Solvents) \* Purity HPLC (%) / 100%

Water Content and Residual Solvents are considered as absolute effect, HPLC purity is considered as relative effect.

## Signature:

Prepared by:

*Lily*

Reviewed by:

*Lisa*

Aproved by General Manager:

*David*

Date: Oct 26, 2023

Date: Oct 26, 2023

Date: Oct 26, 2023

