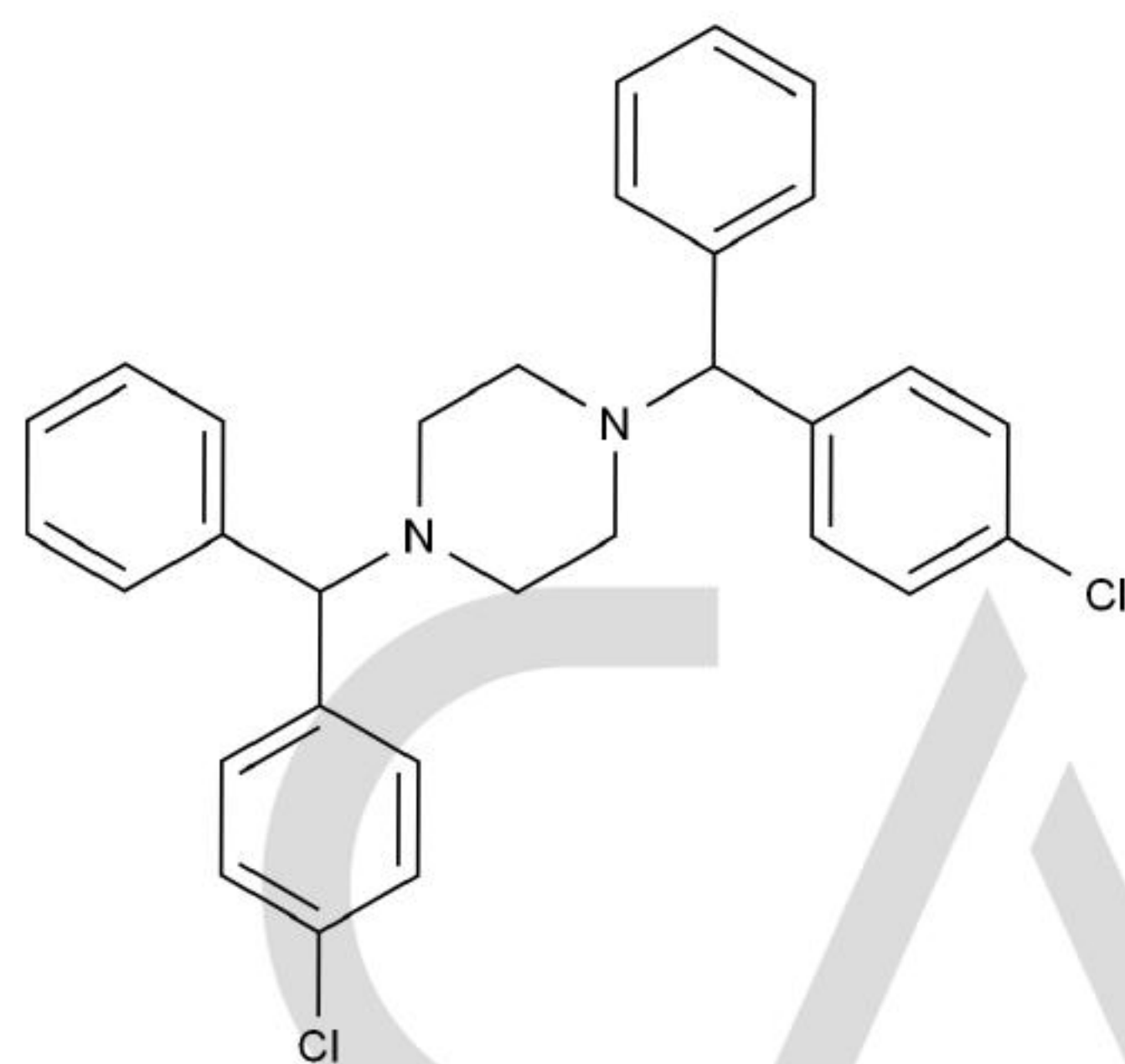


# Certificate of Analysis

## Reference Material & Standard

|                           |                                                                      |                          |                                                                                     |
|---------------------------|----------------------------------------------------------------------|--------------------------|-------------------------------------------------------------------------------------|
| <b>Product Name:</b>      | Cetirizine EP Impurity D DiHCl                                       | <b>Catalogue Number:</b> | C4X-10834                                                                           |
| <b>Synonyms:</b>          | N/A                                                                  | <b>Lot Number:</b>       | 0922-RC-0007                                                                        |
| <b>CAS Number:</b>        | 856841-95-7                                                          | <b>Expiry Date:</b>      | Sep 28, 2027                                                                        |
| <b>Molecular Formula:</b> | C <sub>30</sub> H <sub>28</sub> Cl <sub>2</sub> N <sub>2</sub> 2*HCl | <b>Storage:</b>          | 2°C ~ 8°C Protected from light and Sealed                                           |
| <b>Molecular Weight:</b>  | 487.46 2*36.46                                                       | <b>Warning:</b>          |  |

### Chemical Structure:



| Test Items     | Method            | Results     |
|----------------|-------------------|-------------|
| Appearance     | Visual inspection | White Solid |
| Identification | LCMS&HNMR         | Confirmed   |
| Purity         | HPLC              | 99.8669%    |
| Loss On Drying | TGA               | 2.3134%     |
| Assay          |                   | 97.6%       |

### Comment:

The calculation of the 100% 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:

Prepared by:

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Reviewed by:

*Lisa*

Approved by General Manager:

*David*

Date: Sep 29, 2024

Date: Sep 29, 2024

Date: Sep 29, 2024

