

# Certificate of Analysis

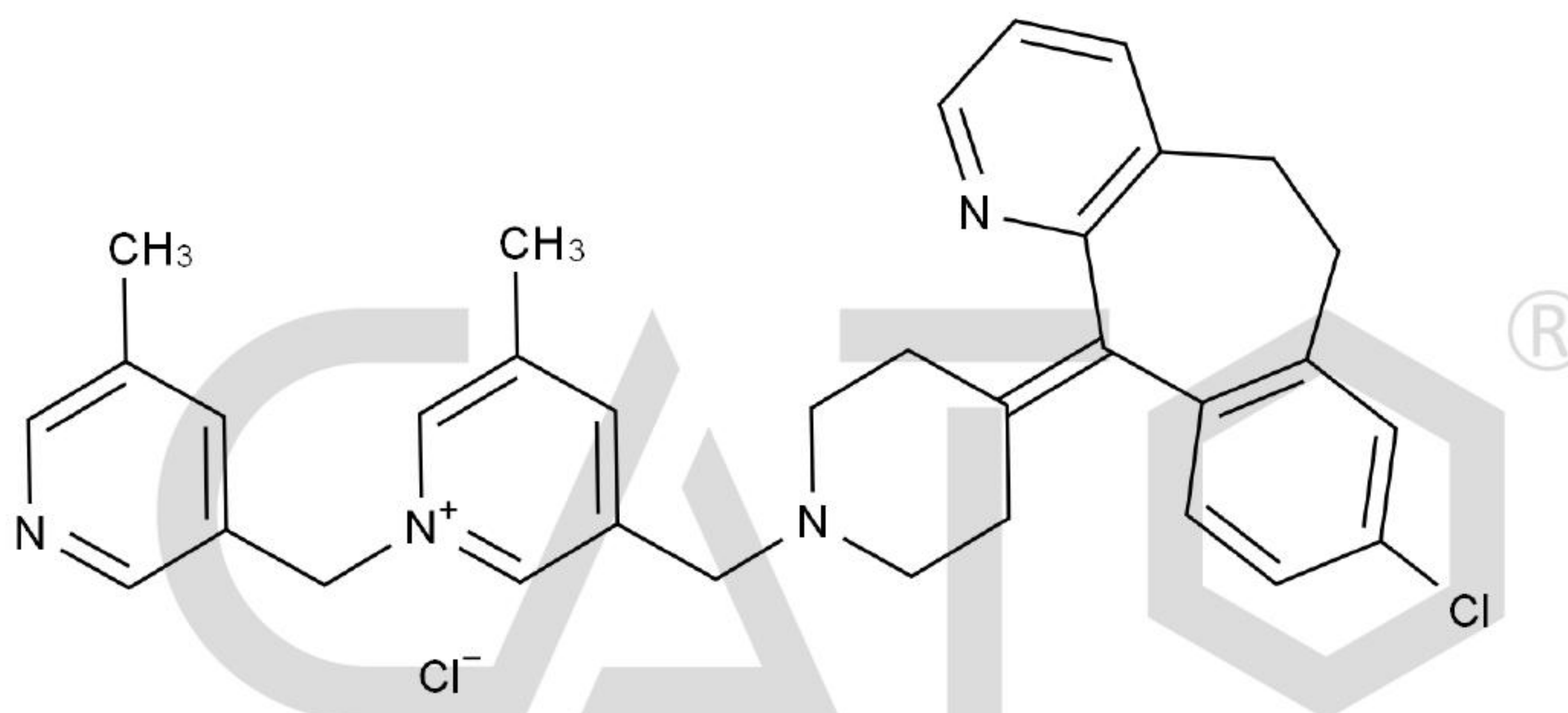
## Reference Material & Standard

|                           |                                                     |                            |                                           |
|---------------------------|-----------------------------------------------------|----------------------------|-------------------------------------------|
| <b>Product Name:</b>      | Rupatadine Impurity 2                               | <b>Catalogue Number:</b>   | C4X-10272                                 |
| <b>Synonyms:</b>          | N/A                                                 | <b>Lot Number:</b>         | 0701-RF-0108                              |
| <b>CAS Number:</b>        | 1422960-88-0 (free base)                            | <b>Expiry Date:</b>        | Jan 29, 2030                              |
| <b>Molecular Formula:</b> | C <sub>33</sub> H <sub>34</sub> ClN <sub>4</sub> Cl | <b>Storage:</b>            | 2°C ~ 8°C Protected from light and Sealed |
| <b>Molecular Weight:</b>  | 522.10 35.45                                        | <b>Shipping Condition:</b> | Shipping at Room Temperature              |

**Warning:**



**Chemical Structure:**



| Test Items        | Method            | Results             |
|-------------------|-------------------|---------------------|
| Appearance        | Visual inspection | Off-White Solid     |
| Identification    | LCMS&HNMR         | Confirmed           |
| Purity            | HPLC              | 98.960%             |
| Water Content     | Karl Fischer      | 4.69%               |
| Residual Solvents | NMR               | Not detected in NMR |
| Assay             |                   | 94.3%               |

## Comment:

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

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

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

**Signature:**

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