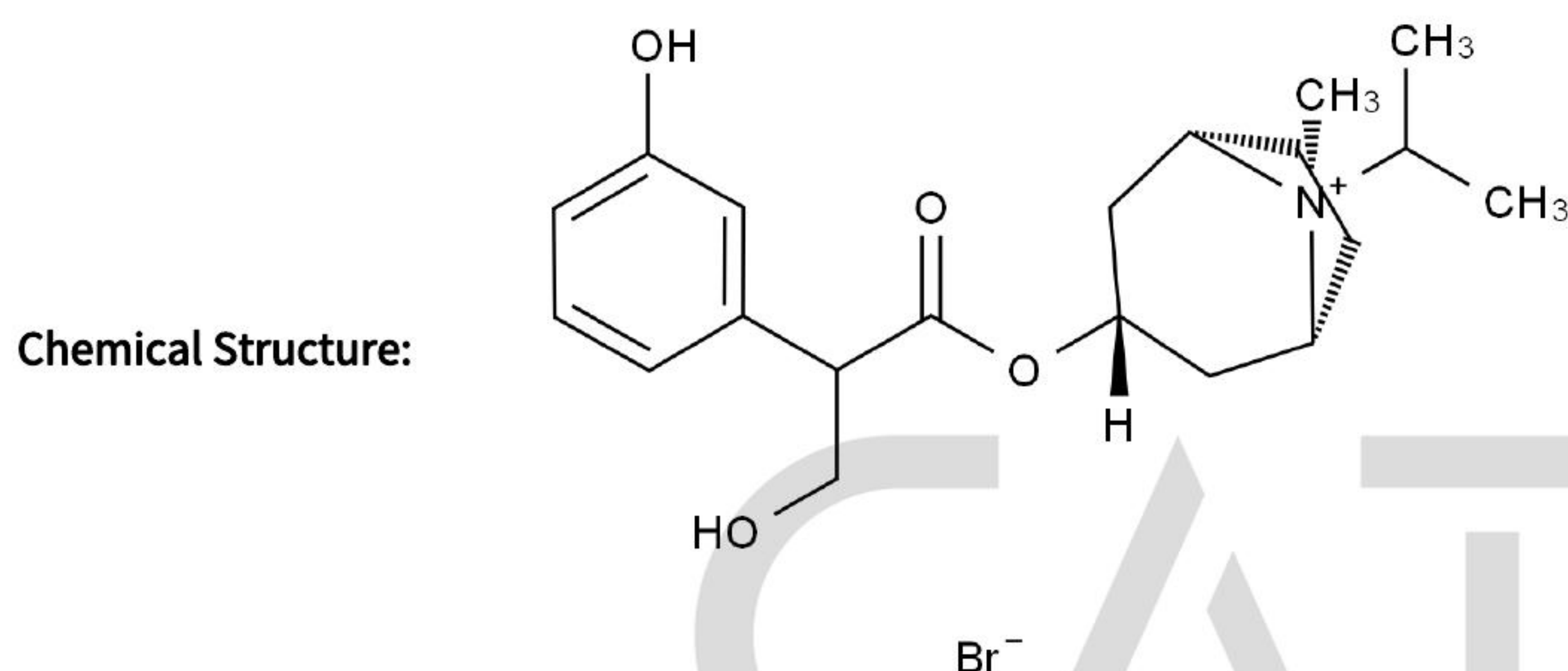


# Certificate of Analysis

## Reference Material & Standard

|                           |                                                    |                          |                                           |
|---------------------------|----------------------------------------------------|--------------------------|-------------------------------------------|
| <b>Product Name:</b>      | 3-Hydroxy Ipratropium Bromide                      | <b>Catalogue Number:</b> | C4X-166519                                |
| <b>Synonyms:</b>          | N/A                                                | <b>Lot Number:</b>       | 0303-RG-0034                              |
| <b>CAS Number:</b>        | N/A                                                | <b>Expiry Date:</b>      | Nov 12, 2027                              |
| <b>Molecular Formula:</b> | C <sub>20</sub> H <sub>30</sub> NO <sub>4</sub> Br | <b>Storage:</b>          | 2°C ~ 8°C Protected from light and Sealed |
| <b>Molecular Weight:</b>  | 348.46 79.90                                       |                          |                                           |



| Test Items     | Method            | Results         |
|----------------|-------------------|-----------------|
| Appearance     | Visual inspection | Off-White Solid |
| Identification | LCMS&HNMR         | Confirmed       |
| Purity         | HPLC              | 100.0000%       |
| Loss On Drying | TGA               | 2.385%          |
| 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:

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Reviewed by:

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Approved by General Manager:

*David*

Date: Mar 03, 2025

Date: Mar 03, 2025

Date: Mar 03, 2025

