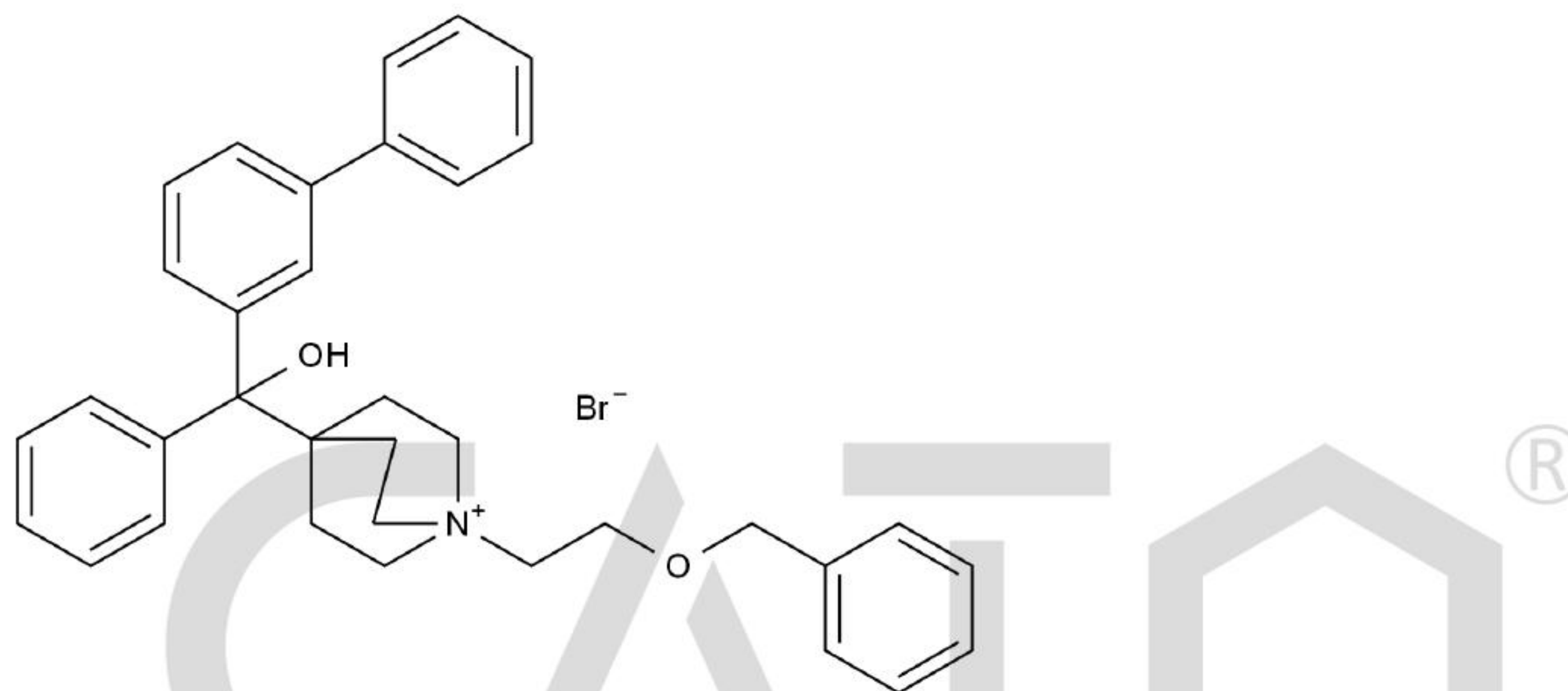


# Certificate of Analysis

## Reference Material & Standard

|                    |                                                    |                   |                                           |
|--------------------|----------------------------------------------------|-------------------|-------------------------------------------|
| Product Name:      | Umeclidinium Impurity 11                           | Catalogue Number: | C4X-133911                                |
| Synonyms:          | N/A                                                | Lot Number:       | 1108-RF-0017                              |
| CAS Number:        | 2253743-38-1                                       | Expiry Date:      | Nov 07, 2027                              |
| Molecular Formula: | C <sub>35</sub> H <sub>38</sub> NO <sub>2</sub> Br | Storage:          | 2°C ~ 8°C Protected from light and Sealed |
| Molecular Weight:  | 504.68 79.90                                       |                   |                                           |

Chemical Structure:



| Test Items     | Method            | Results     |
|----------------|-------------------|-------------|
| Appearance     | Visual inspection | White Solid |
| Identification | LCMS&HNMR         | Confirmed   |
| Purity         | HPLC              | 97.9%       |
| Assay          | qNMR              | 97.0%       |

## Comment:

Assay was determined by quantitative <sup>1</sup>H-NMR.

## Signature:

Prepared by:

*Koi*

Reviewed by:

*Lisa*

Approved by General Manager:

*David*

Date: Nov 08, 2024

Date: Nov 08, 2024

Date: Nov 08, 2024

