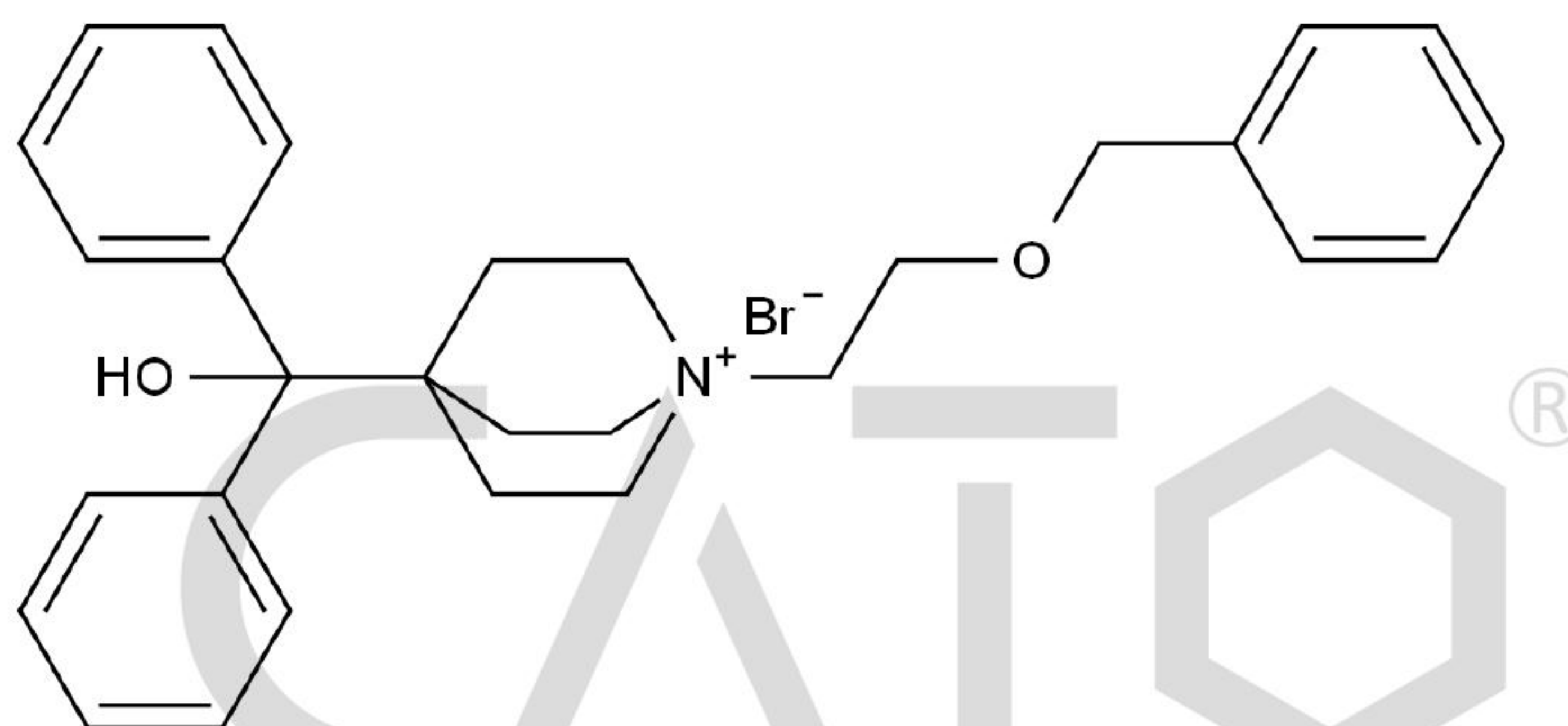


Certificate of Analysis

Reference Material & Standard

Product Name:	Umeclidinium Bromide	Catalogue Number:	C4X-1339
Synonyms:	N/A	Lot Number:	1118-RG-0010
CAS Number:	869113-09-7	Expiry Date:	Nov 20, 2029
Molecular Formula:	C ₂₉ H ₃₄ NO ₂ Br	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	428.59 79.90	Shipping Condition:	Shipping at Room Temperature
Solubility:	Acetonitrile		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.889%
Water Content	Karl Fischer	0.2025%
Residue on Ignition	TGA	0.6283%
Assay		99.1%

Comment:

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

Assay (%) = (100% - Water Content - Residue on Ignition) * Purity HPLC (%) / 100%

Water Content and Residue on Ignition are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Nice

Reviewed by:

Koi

Approved by General Manager:

David

Date: Nov 21, 2025

Date: Nov 21, 2025

Date: Nov 21, 2025



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Page 1 of 6



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