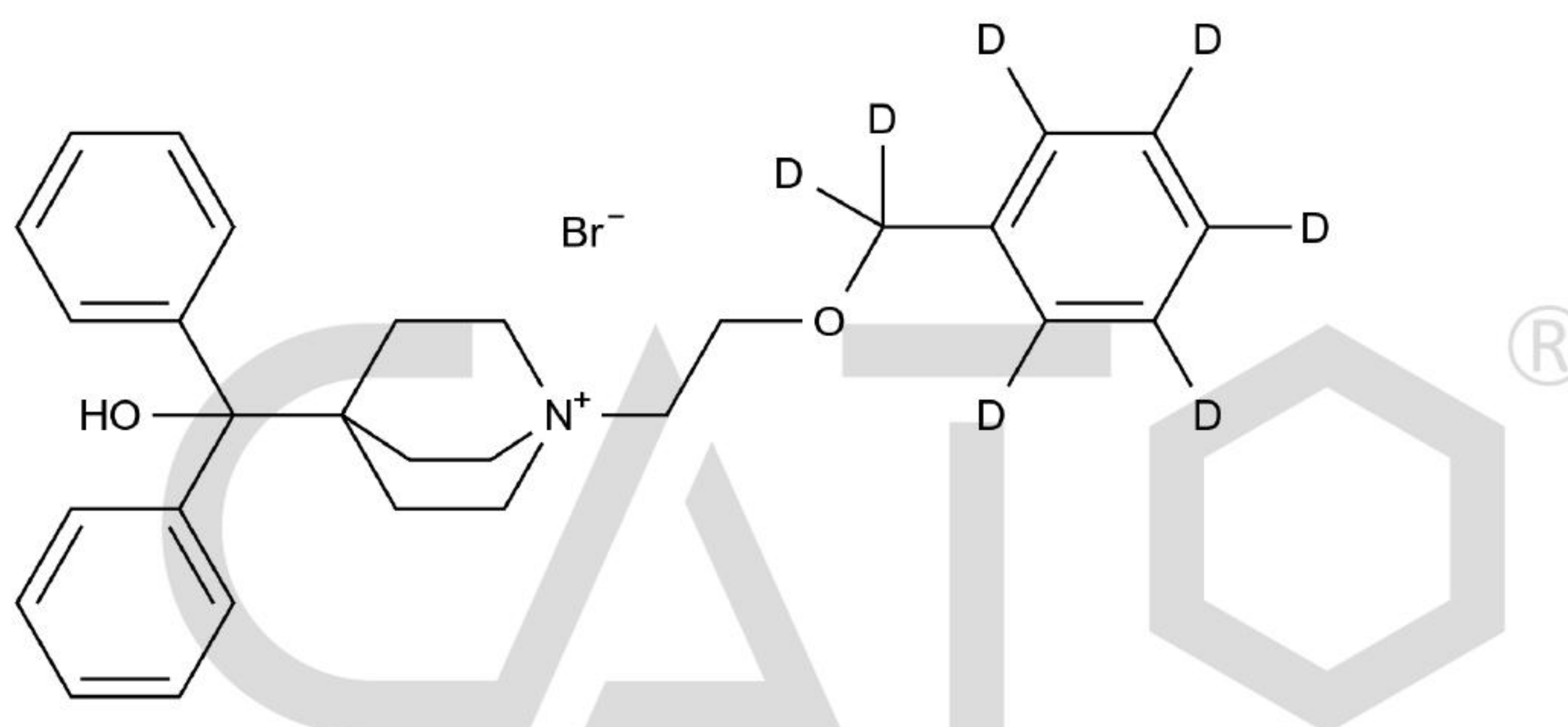


Certificate of Analysis

Reference Material & Standard

Product Name:	Umeclidinium Bromide-d7	Catalogue Number:	C4X-133928
Synonyms:	N/A	Lot Number:	1011-RG-0036
CAS Number:	N/A	Expiry Date:	Mar 10, 2027
Molecular Formula:	C ₂₉ H ₂₇ D ₇ NO ₂ Br	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	435.63 79.90		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White to Off-White Solid
Identification	LCMS&HNMR	Confirmed
Chemical Purity	HPLC	98.8127%
Isotopic Purity		99.4%
Water Content	Karl Fischer	3.00%
Residual Solvents	NMR	Not detected in NMR
Assay		95.8%

Comment:

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

Assay (%) = (100% - Water Content - Residual Solvents) * Purity HPLC (%) / 100%

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

Signature:

Prepared by:

Lily

Reviewed by:

Hinlam

Approved by General Manager:

David

Date: Oct 14, 2025

Date: Oct 14, 2025

Date: Oct 14, 2025



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