

Certificate of Analysis

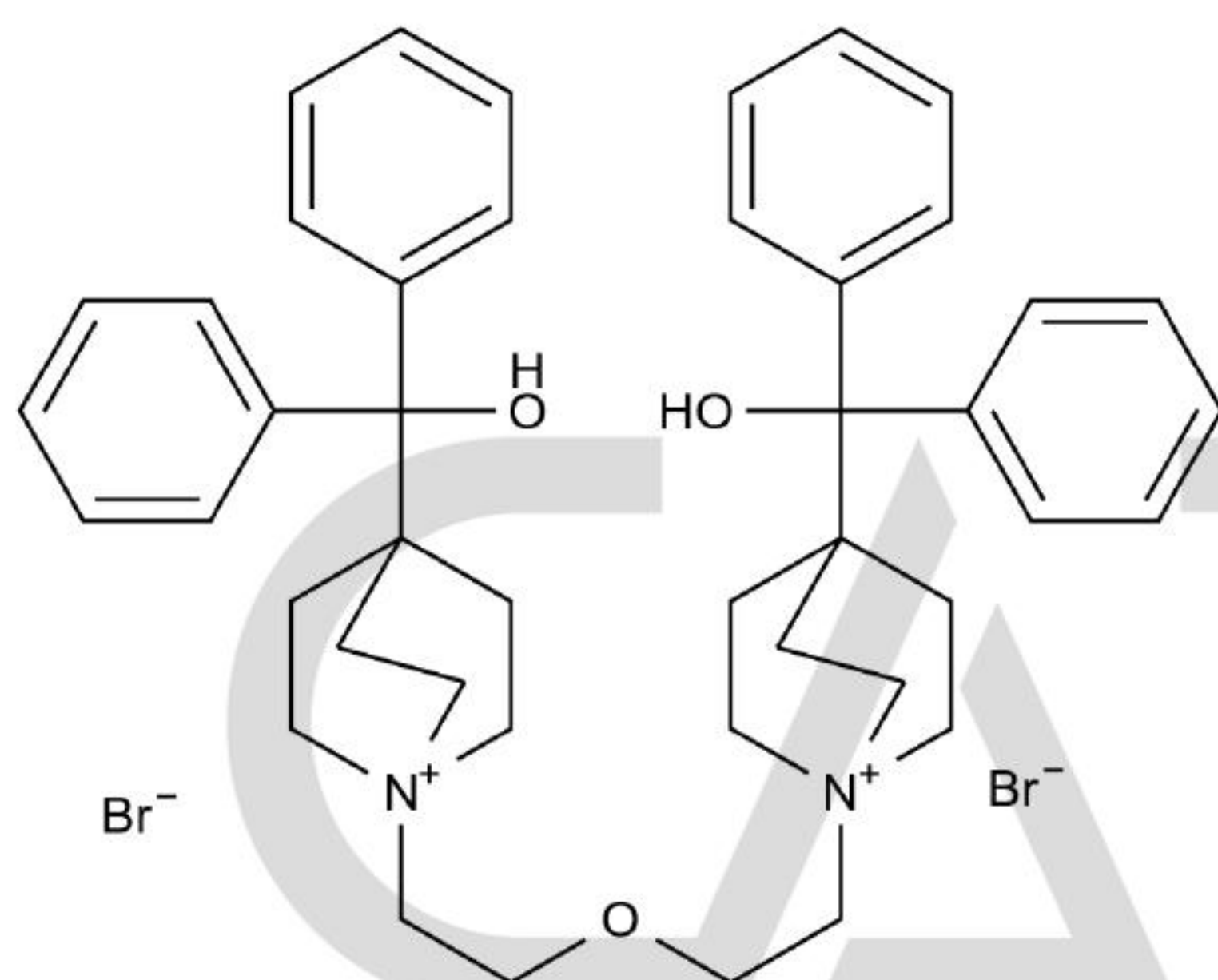
Reference Material & Standard

Product Name:	Umeclidinium Impurity 6	Catalogue Number:	C4X-13396
Synonyms:	N/A	Lot Number:	0204-RH-0069
CAS Number:	N/A	Expiry Date:	Jan 27, 2030
Molecular Formula:	C ₄₄ H ₅₄ N ₂ O ₃ 2*Br	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	658.91 2*79.90	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&UV&HNMR	Confirmed
Purity	HPLC	98.986%
Water Content	Karl Fischer	0.68%
Residual Solvents	NMR	Not detected in NMR
Assay		98.3%

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:

Prepared by:

Hin lam

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Feb 10, 2026

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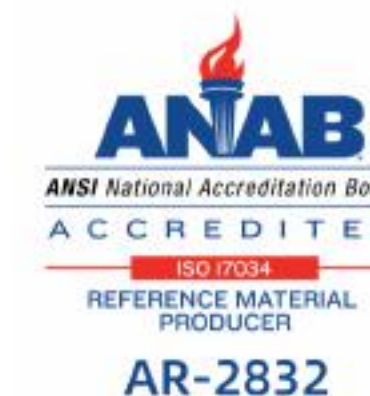
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