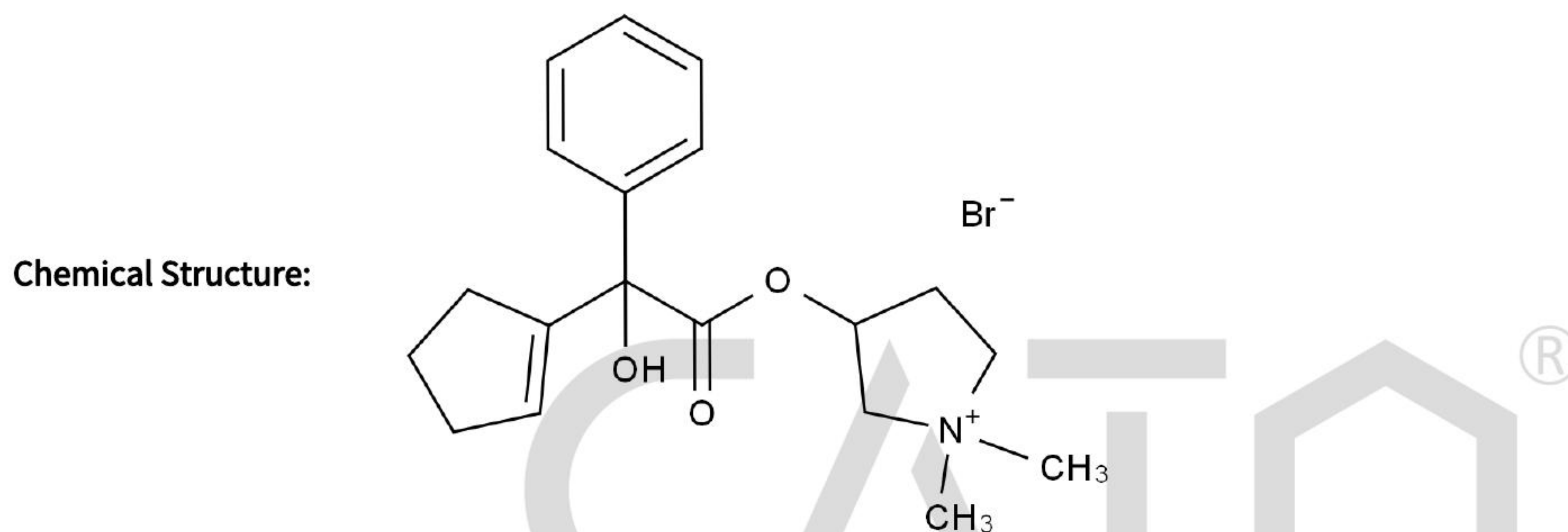


Certificate of Analysis

Reference Material & Standard

Product Name:	Glycopyrrolate Impurity 9	Catalogue Number:	C4X-14319
Synonyms:	N/A	Lot Number:	0422-RG-0084
CAS Number:	N/A	Expiry Date:	Apr 17, 2028
Molecular Formula:	C ₁₉ H ₂₆ NO ₃ Br	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	316.41 79.90		



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.963%
Water Content	Karl Fischer	1.86%
Residual Solvents	NMR	0.11% dichloromethane
Assay		98.0%

Comment:

The calculation of the 100% 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:

Hin Lam

Approved by General Manager:

David

Date: Apr 23, 2025

Date: Apr 23, 2025

Date: Apr 23, 2025

