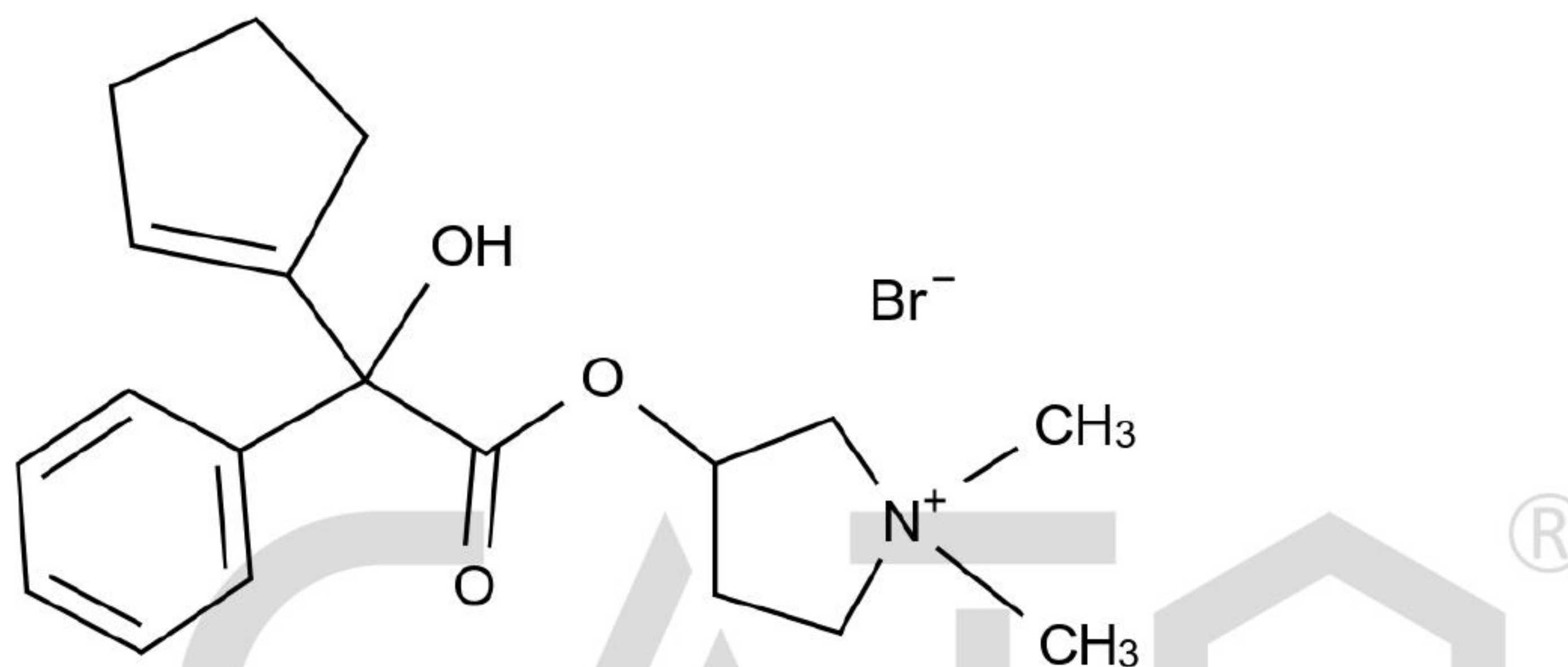


Certificate of Analysis

Reference Material

Product Name:	Glycopyrrolate Impurity 18	Catalogue Number:	C4X-143118
Chemical Name:	N/A	Lot Number:	0210-RE-0020
CAS Number:	N/A	Expiry Date:	Feb 13, 2026
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		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Powder
Identification	LCMS&CNMR&HNMR	Confirmed
Purity	HPLC	99.917%
Water Content	Karl Fischer	1.86%
Assay		98.1%

Comment:

The calculation of the 100% method follows the formula (calculated on the non-dried basis):

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

Water Content is considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Nacy

Reviewed by:

Xenia

Aporoved by General manager:

David

Date: Feb 14, 2023

Date: Feb 16, 2023

Date: Feb 16, 2023

