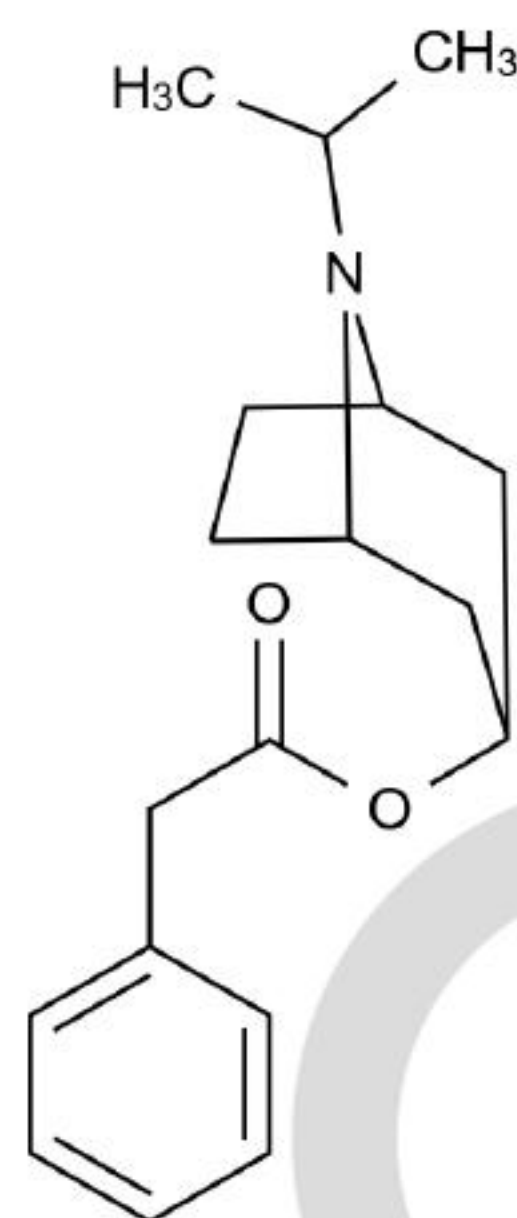


Certificate of Analysis

Reference Material & Standard

Product Name:	(1R,3r,5S)-Ipratropium Impurity 35	Catalogue Number:	C4X-166535
Synonyms:	Atropine Impurity	Lot Number:	1218-RE-0063
CAS Number:	88607-15-2	Expiry Date:	Mar 31, 2025
Molecular Formula:	C ₁₈ H ₂₅ NO ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	287.40		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	95.6470%
Water Content	Karl Fischer	0.144%
Residual Solvents	NMR	0.5209% acetonitrile
Assay		95.0%

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:

Lisa

Aproved by General Manager:

David

Date: Dec 20, 2023

Date: Dec 20, 2023

Date: Dec 20, 2023

