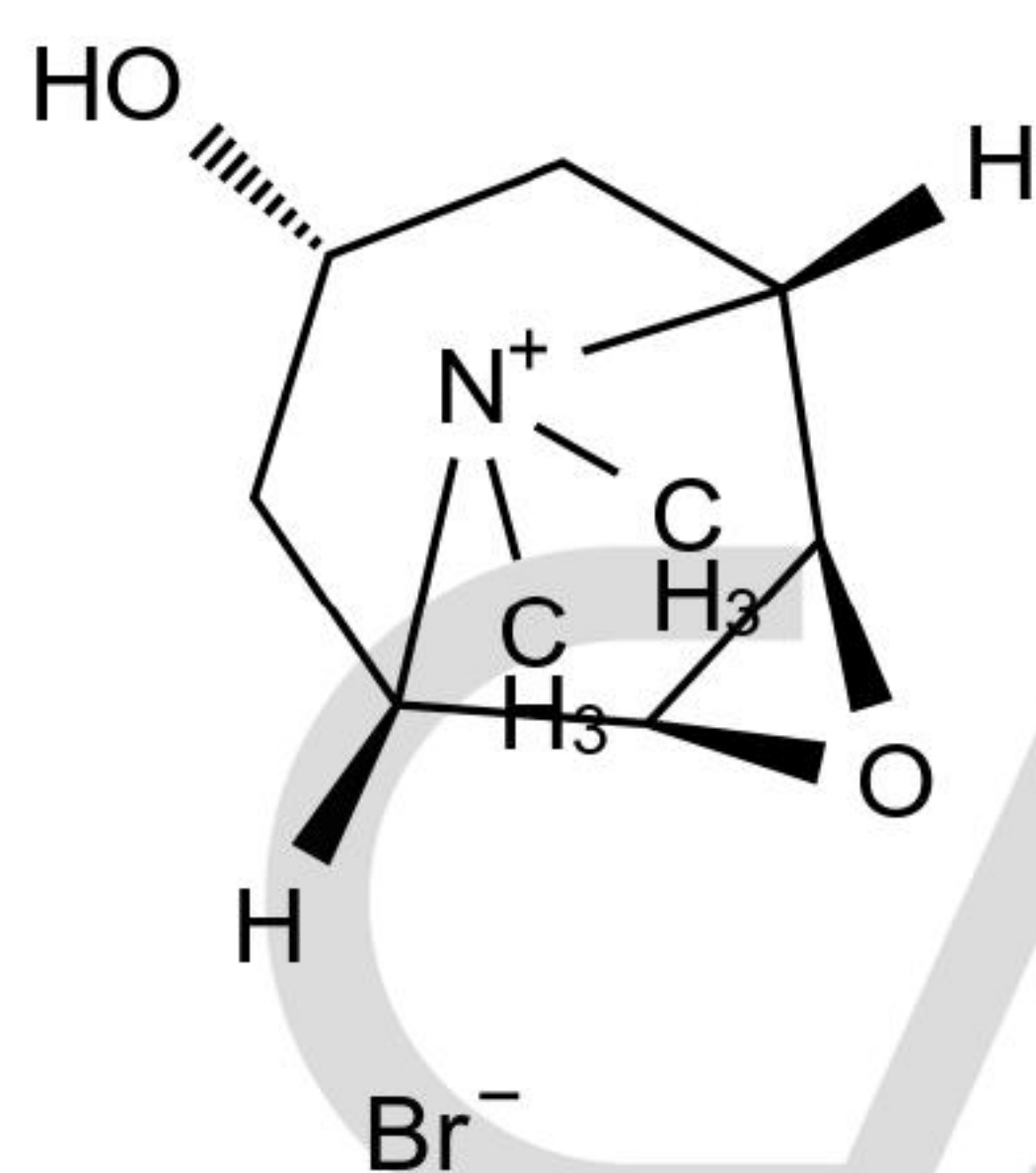


Certificate of Analysis

Reference Material & Standard

Product Name:	Tiotropium EP Impurity G	Catalogue Number:	C4X-17647
Synonyms:	N/A	Lot Number:	0320-RH-0045
CAS Number:	1508-46-9	Expiry Date:	Mar 29, 2030
Molecular Formula:	C ₉ H ₁₆ NO ₂ Br	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	170.23 79.90	Shipping Condition:	Shipping with Ice Packs

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&HNMR	Confirmed
Purity	ELSD	95.804%
Loss On Drying	TGA	0.1622%
Assay		95.6%

Comment:

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

Assay (%) = (100% - Loss On Drying) * Purity ELSD (%) / 100%

Loss On Drying is considered as absolute effect, ELSD purity is considered as relative effect.

Signature:

Prepared by:

Nice

Reviewed by:

Koi

Approved by General Manager:

David

Date: Mar 30, 2026

Date: Mar 30, 2026

Date: Mar 30, 2026



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