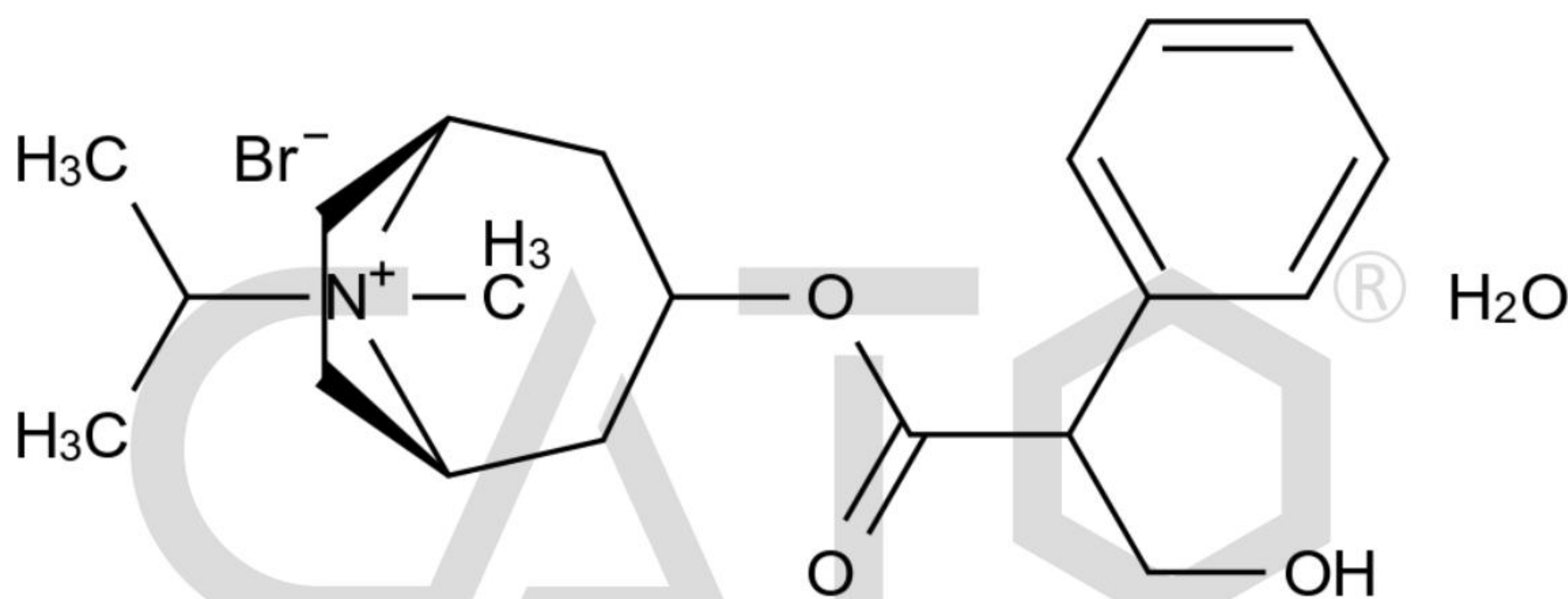


Certificate of Analysis

Reference Material & Standard

Product Name:	Ipratropium bromide monohydrate	Catalogue Number:	C4X-1665
Synonyms:	N/A	Lot Number:	0123-RH-0067
CAS Number:	66985-17-9	Expiry Date:	Jan 27, 2030
Molecular Formula:	C ₂₀ H ₃₀ NO ₃ Br H ₂ O	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	332.46 79.90 18.02	Shipping Condition:	Shipping at Room Temperature
Solubility:	Acetonitrile	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	100.000%
Residue on Ignition	TGA	1.4617%
Loss On Drying	TGA	4.0714%
Loss On Drying(Free Water)		ND
Assay		98.5%

Comment:

- The content of crystal water is 4.1870%.
- The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Residue on Ignition} - \text{Loss On Drying(Free Water)}) * \text{Purity HPLC (\%)} / 100\%$$
Residue on Ignition and Loss On Drying(Free Water) are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Nice

Reviewed by:

Koi

Approved by General Manager:

David

Date: Jan 28, 2026

Date: Jan 28, 2026

Date: Jan 28, 2026



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