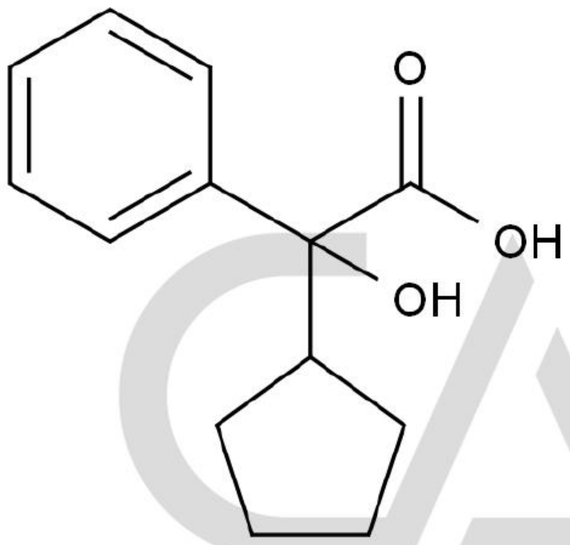
Certificate of Analysis

Reference Material & Standard

Product Name:	Glycopyrronium Bromide EP Impurity J	**Catalogue Number:**	C4X-14313
Synonyms:	N/A	**Lot Number:**	0626-RH-0038
CAS Number:	427-49-6	**Expiry Date:**	Jun 29, 2030
Molecular Formula:	$C_{13}H_{16}O_3$	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	220.26	**Shipping Condition:**	Shipping at Room Temperature
Solubility:	Acetonitrile	**Warning:**	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&CNMR&HNMR	Confirmed
Purity	HPLC	99.032%
Water Content	Karl Fischer	0.2136%
Assay		98.8%

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Comment:

The calculation of the mass balance 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: Alice Date: Jun 30, 2026

Reviewed by: Koi Date: Jun 30, 2026

Approved by General Manager: David Date: Jun 30, 2026

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