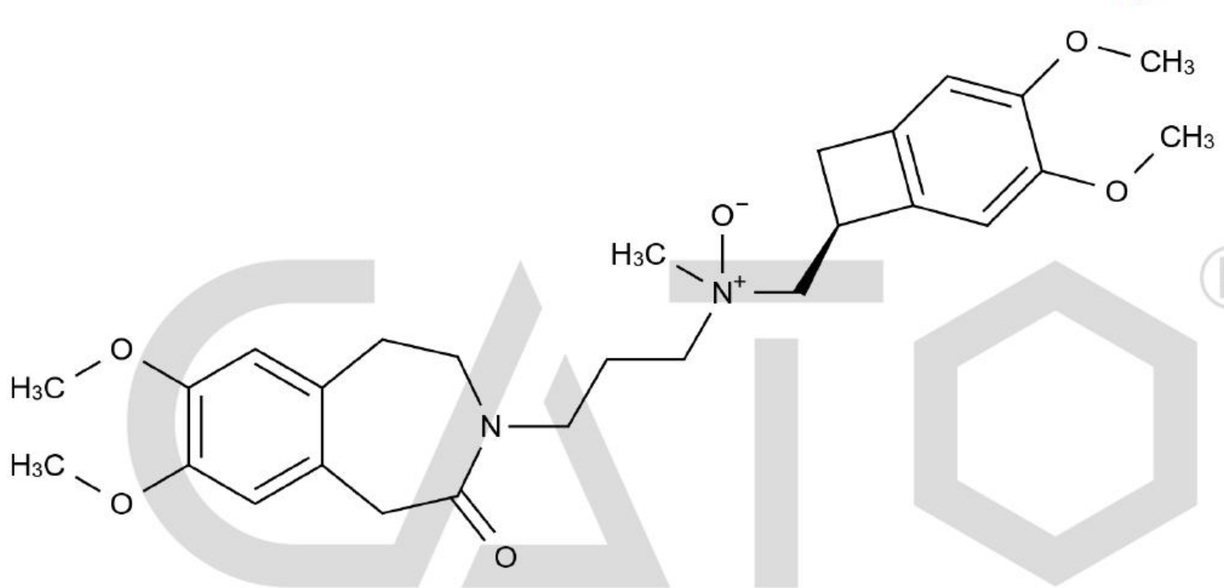
Certificate of Analysis

Reference Material & Standard

Product Name:	Ivabradine Impurity 42	**Catalogue Number:**	C4X-111942
Synonyms:	N/A	**Lot Number:**	1014-RF-0063
CAS Number:	2511244-97-4	**Expiry Date:**	Nov 10, 2030
Molecular Formula:	$C_{27}H_{36}N_2O_6$	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	484.58	**Shipping Condition:**	Shipping at Room Temperature
		Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	98.239%
Water Content	Karl Fischer	5.30%
Residual Solvents	NMR	Not detected in NMR
Assay	Mass Balance	93.0%

CATO Research Chemicals Inc.

Comment:

The calculation of the mass balance 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: Date: Nov 19, 2026

Reviewed by: Date: Nov 19, 2026

Approved by General Manager: Date: Nov 19, 2026