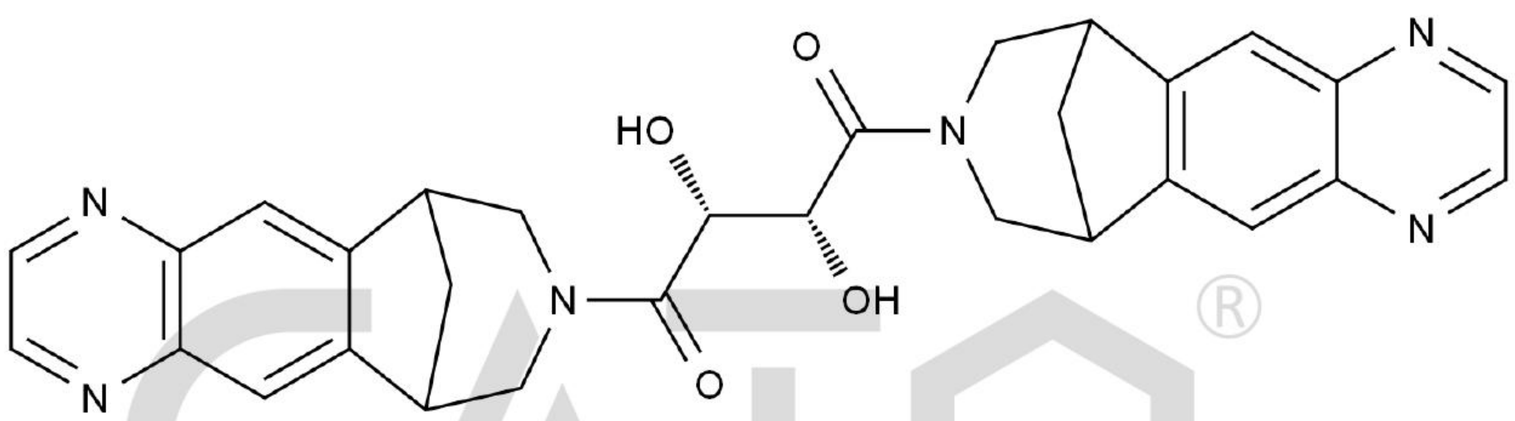
Certificate of Analysis

Reference Material & Standard

Product Name:	Varenicline Impurity 33	**Catalogue Number:**	C4X-196233
Synonyms:	N/A	**Lot Number:**	0628-RH-0043
CAS Number:	N/A	**Expiry Date:**	Nov 04, 2029
Molecular Formula:	$C_{30}H_{28}N_6O_4$	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	536.58	**Shipping Condition:**	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.264%
Loss on Drying	TGA	2.8798%
Assay		96.4%

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Comment:

The calculation of the mass balance method follows the formula (calculated on the non-dried basis):
*Assay (%) = (100%-Loss on Drying) * Purity HPLC (%) /100%*
Loss on Drying is considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by: Date: Jul 01, 2026

Reviewed by: Date: Jul 01, 2026

Approved by General Manager: Date: Jul 01, 2026

CATO Research Chemicals Inc.