CATO Research Chemicals Inc.

Make the Tests More Accurate

ISO 17034 : 2016 | ISO 9001 : 2015

CATO-FM-59 Version No.: A/1

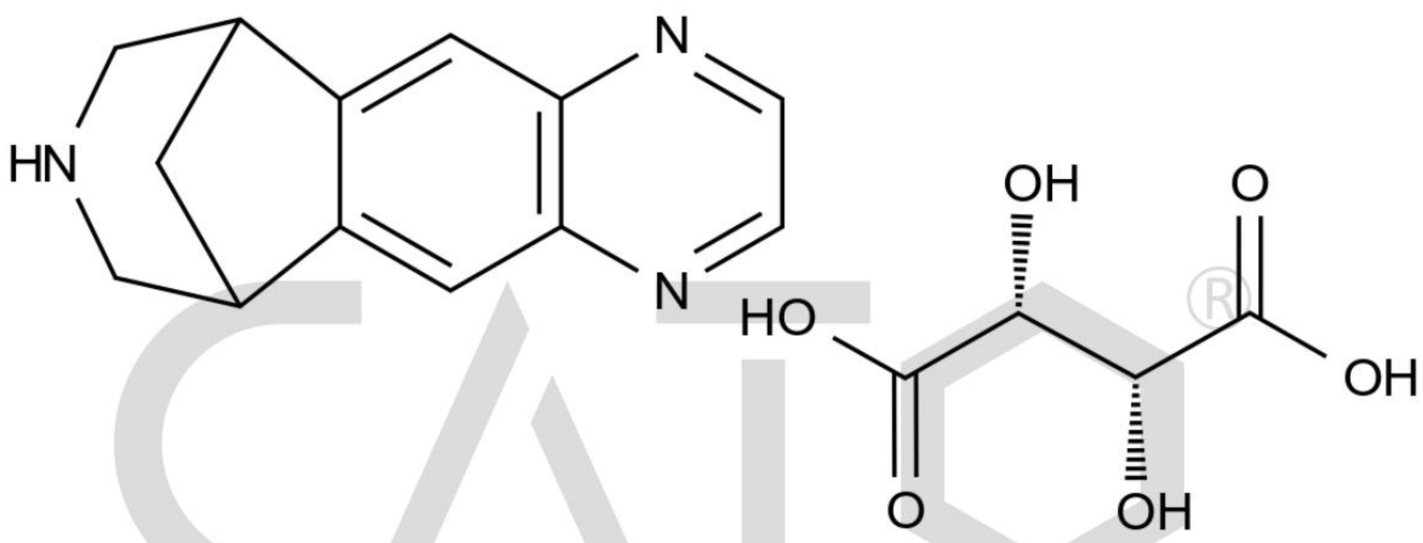
No.: 202610300079

Certificate of Analysis

Reference Material & Standard

Product Name:	Varenicline Tartrate	**Catalogue Number:**	C4X-1962
Synonyms:	N/A	**Lot Number:**	1103-RH-0002
CAS Number:	375815-87-5	**Expiry Date:**	Nov 08, 2030
Molecular Formula:	$C_{13}H_{13}N_3$ $C_4H_6O_6$	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	211.26 150.09	**Shipping Condition:**	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	100.000%
Residue on Ignition	TGA	0.5862%
Loss on Drying	TGA	1.1926%
Assay	qNMR	97.8%
Assay (Assigned Value)	Mass Balance	98.2%

Comment:

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

Signature:

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ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-2832

ISO 9001:2000 SYSTEM CERTIFICATION SGS

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