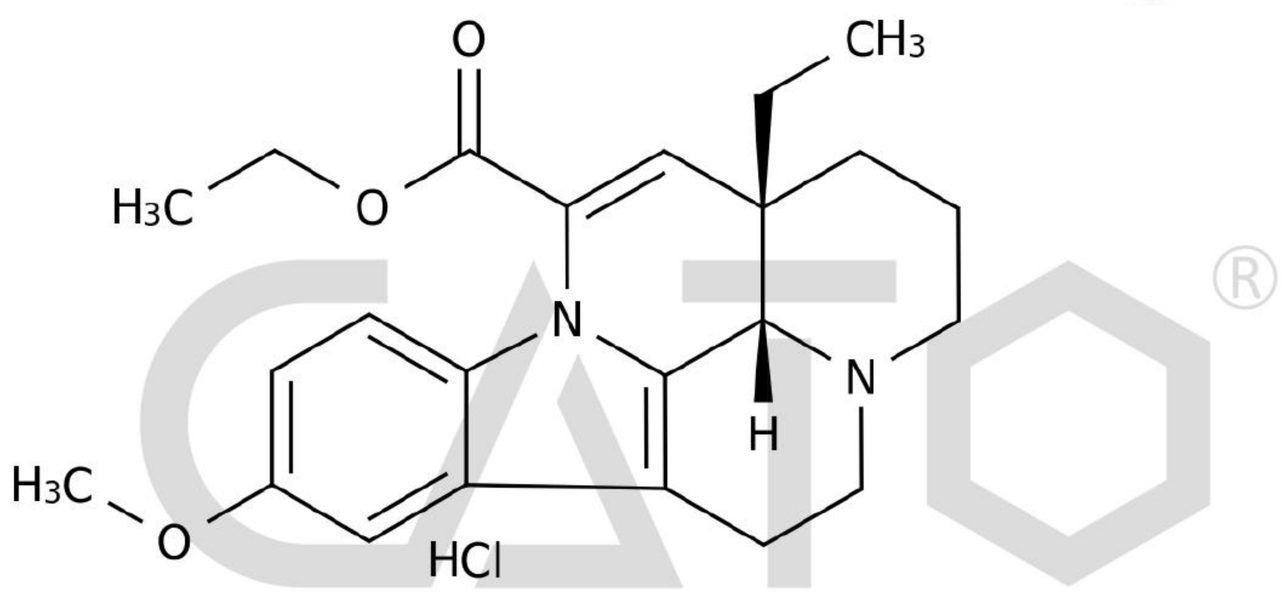
Certificate of Analysis

Reference Material & Standard

Product Name:	Vinpocetine EP Impurity C HCl	**Catalogue Number:**	C4X-184310
Synonyms:	N/A	**Lot Number:**	0921-RH-0029
CAS Number:	N/A	**Expiry Date:**	Nov 29, 2028
Molecular Formula:	$C_{23}H_{28}N_2O_3$ HCl	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	380.48 36.46	**Shipping Condition:**	Shipping at Room Temperature
		Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&UV&HNMR	Confirmed
Purity	HPLC	97.891%
Water Content	Karl Fischer	1.22%
Residual Solvents	NMR	0.45% ethyl acetate
Assay		96.3%

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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-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: Sep 24, 2026

Reviewed by: Date: Sep 24, 2026

Approved by General Manager: Date: Sep 24, 2026

CATO Research Chemicals Inc.