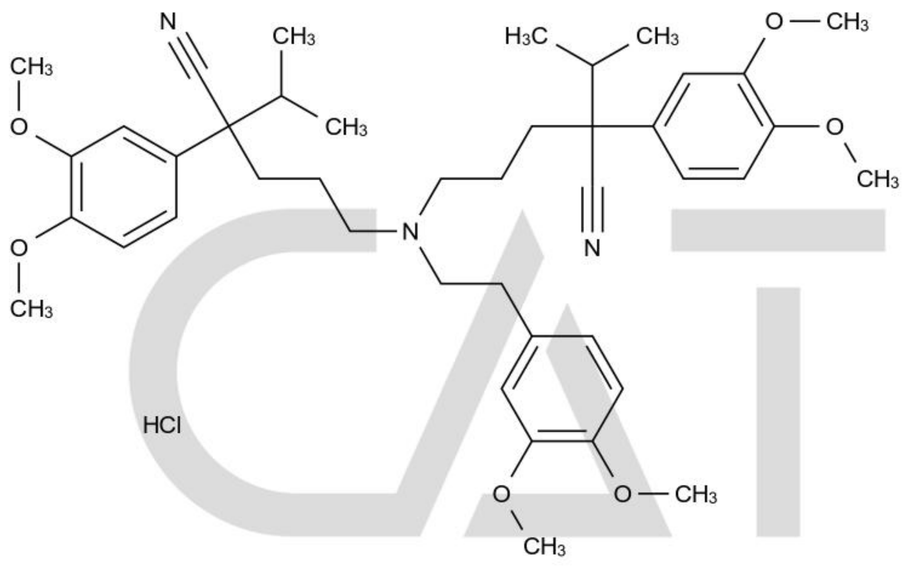
Certificate of Analysis

Reference Material & Standard

Product Name:	Verapamil EP Impurity M HCl (Mixture of Diastereomers)	**Catalogue Number:**	CP124261
Synonyms:	N/A	**Lot Number:**	0622-RH-0134
CAS Number:	190850-50-1	**Expiry Date:**	Jul 05, 2030
Molecular Formula:	$C_{42}H_{57}N_3O_6$ HCl	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	699.92 36.46	**Shipping Condition:**	Shipping at Room Temperature
Solubility:	Acetonitrile	**Warning:**	

Chemical Structure:



CATO Research Chemicals Inc.

Test Items	Method	Results
Appearance	Visual inspection	Light Yellow Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	98.5%
Assay	qNMR	90.0%

Signature:

Prepared by: Alice Date: Jul 06, 2026

Reviewed by: Koi Date: Jul 06, 2026

Approved by General Manager: David Date: Jul 06, 2026

CATO Research Chemicals Inc.