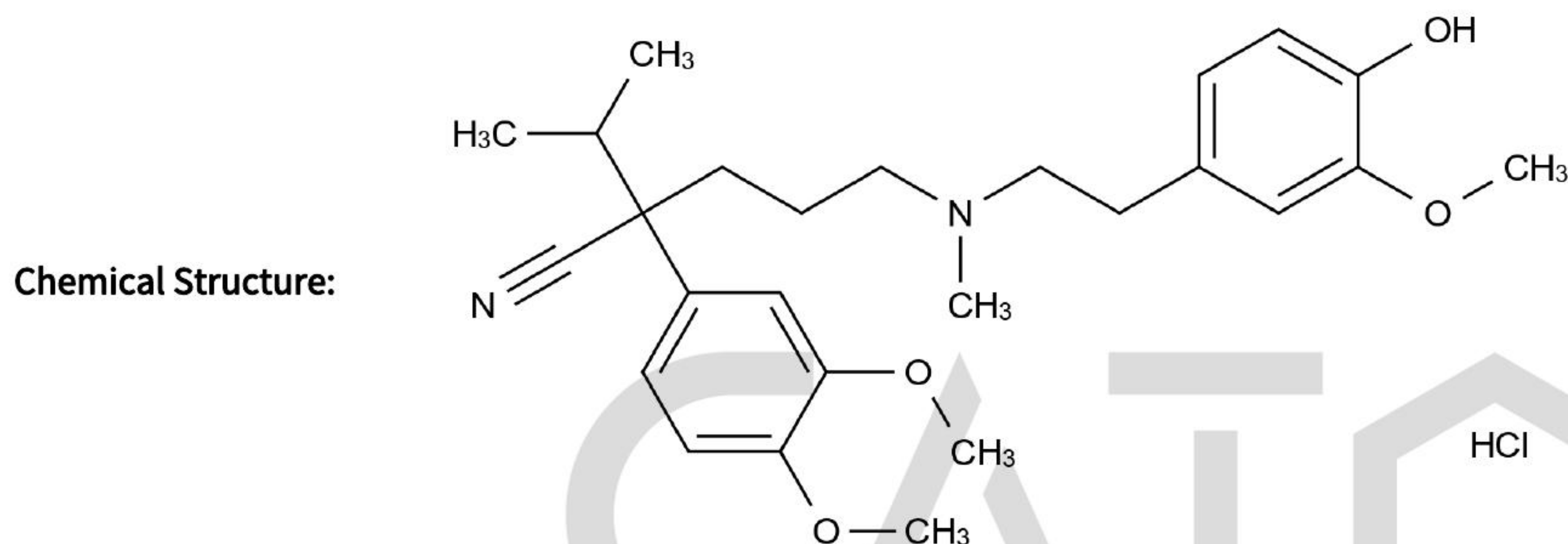


Certificate of Analysis

Reference Material & Standard

Product Name:	Verapamil Impurity 35 HCl	Catalogue Number:	C4X-177835
Synonyms:	N/A	Lot Number:	1206-RE-0011
CAS Number:	77326-93-3 (free base)	Expiry Date:	Dec 03, 2026
Molecular Formula:	C ₂₆ H ₃₆ N ₂ O ₄ HCl	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	440.58 36.46		



Test Items	Method	Results
Appearance	Visual inspection	White to Off-White Solid
Identification	LCMS&IR&HNMR	Confirmed
Purity	HPLC	99.6181%
Water Content	Karl Fischer	0.60%
Residual Solvents	NMR	1.1% methanol and 0.9% acetic acid
Assay		97.0%

Comment:

The calculation of the 100% 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:

Lily

Reviewed by:

Hinlam

Aproved by General Manager:

David

Date: Dec 08, 2023

Date: Dec 08, 2023

Date: Dec 08, 2023

