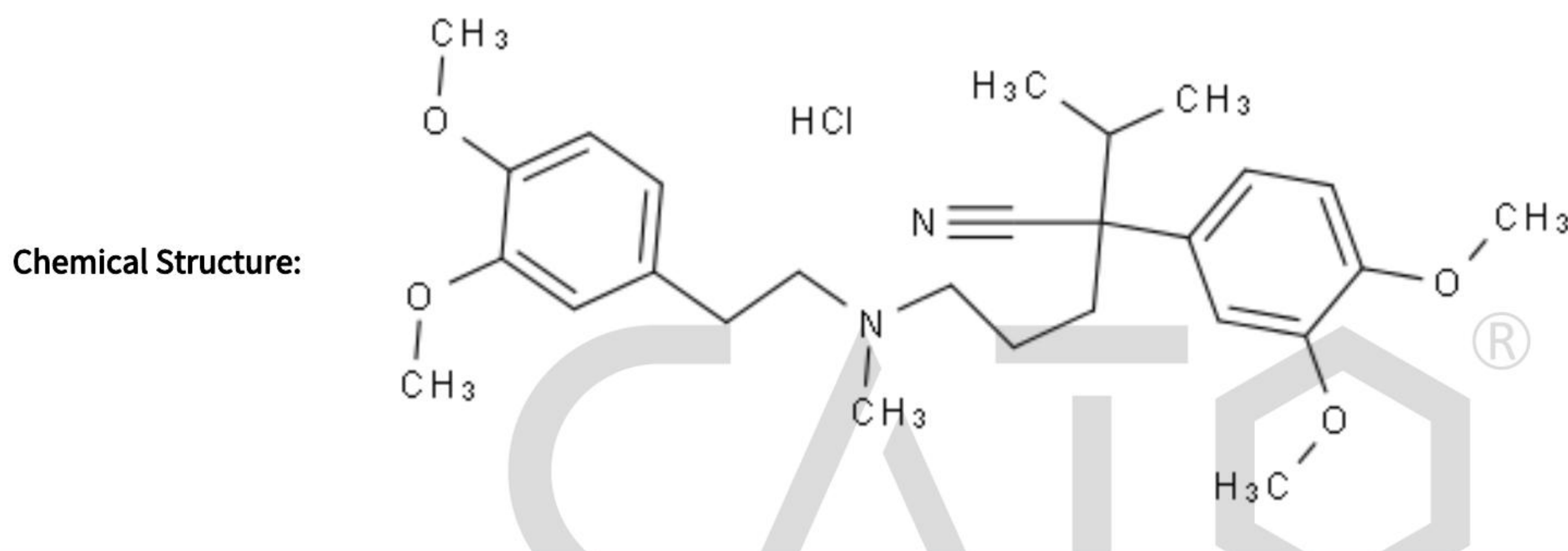


Certificate of Analysis

Reference Material & Standard

Product Name:	Verapamil Hydrochloride	Catalogue Number:	C4X-1778
Synonyms:	N/A	Lot Number:	0402-RD-0026
CAS Number:	152-11-4	Expiry Date:	Jul 07, 2027
Molecular Formula:	C ₂₇ H ₃₈ N ₂ O ₄ HCl	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	454.60 36.46		



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.835%
Residue on Ignition	Muffle Furnace	0.032%
Loss On Drying	TGA	0.0425%
Assay		99.8%

Comment:

The calculation of the 100% 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:

Prepared by:

Koi

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Jul 08, 2024

Date: Jul 08, 2024

Date: Jul 08, 2024

