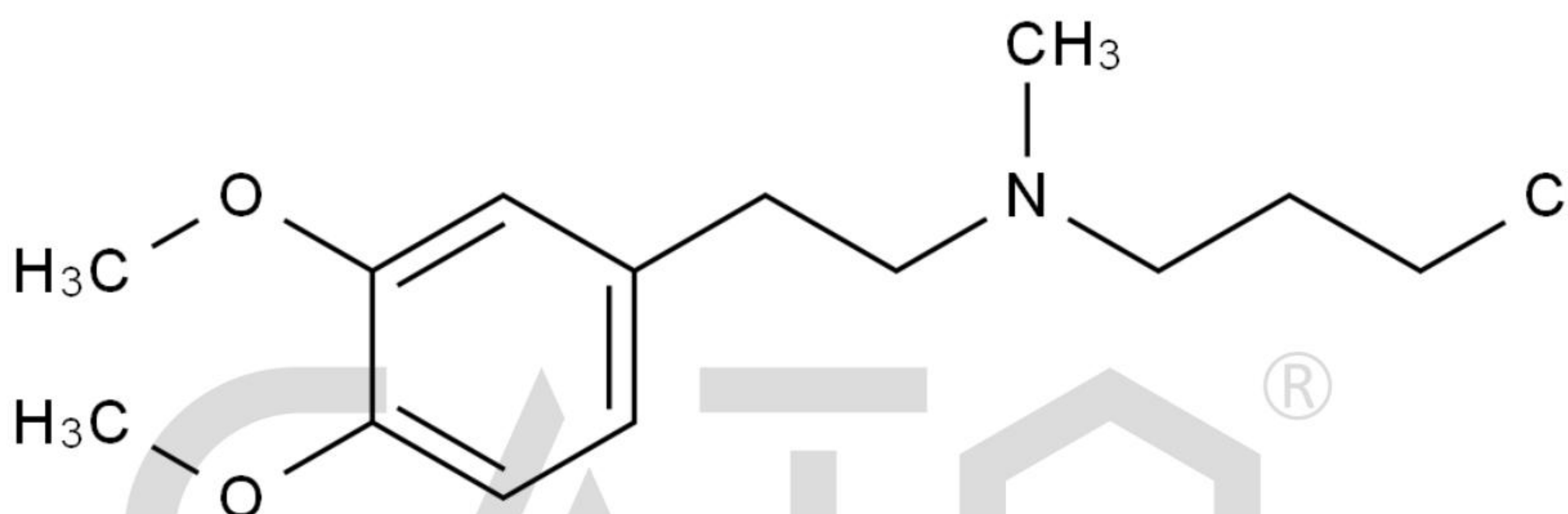


Certificate of Analysis

Reference Material & Standard

Product Name:	Verapamil EP Impurity D	Catalogue Number:	C4X-177821
Synonyms:	N/A	Lot Number:	0521-RG-0069
CAS Number:	36770-74-8	Expiry Date:	May 20, 2028
Molecular Formula:	C ₁₄ H ₂₂ ClNO ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	271.78		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Yellow Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	95.057%
Loss On Drying	TGA	1.9017%
Assay		93.2%

Comment:

The calculation of the 100% method follows the formula (calculated on the non-dried basis):

Assay (%) = (100% - Loss On Drying) * Purity HPLC (%) / 100%

Loss On Drying is considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Koi

Reviewed by:

Lisa

Approved by General Manager:

David

Date: May 21, 2025

Date: May 21, 2025

Date: May 21, 2025

