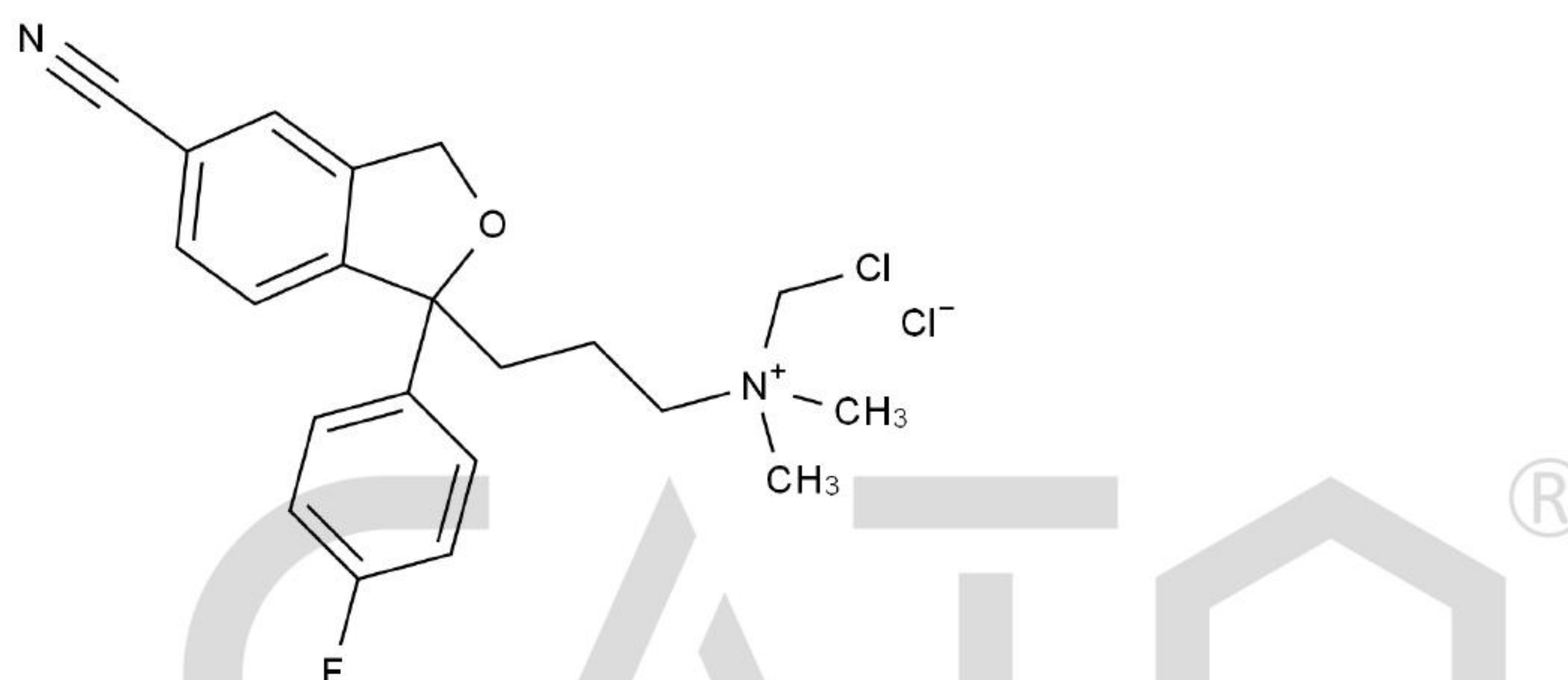


Certificate of Analysis

Reference Material

Product Name:	Citalopram Chloromethyl Quaternary Ammonium Salt	Catalogue Number:	C4X-110942
Chemical Name:	N/A	Lot Number:	1025-RD-0012
CAS Number:	N/A	Expiry Date:	Oct 17, 2025
Molecular Formula:	C ₂₁ H ₂₃ ClFN ₂ O Cl	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	373.87 35.45		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White to Off-White Solid
Identification	LCMS&IR&HNMR	Confirmed
Purity	HPLC	99.0339%
Water Content	Karl Fischer	8.0%
Residual Solvents	NMR	0.2% acetone
Assay		90.9%

Comment:

- The compound contains 0.3% Citalopram (RT 11.662) according to its HPLC and LC-MS.
- The calculation of the 100% method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Water Content} - \text{Residual Solvents}) * \text{Purity HPLC (\%)} / 100\%$$
 Water Content and Residual Solvents are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Hinlam

Reviewed by:

Xenia

Aporoved by General manager:

David

Date: Oct 18, 2022

Date: Oct 26, 2022

Date: Oct 26, 2022

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