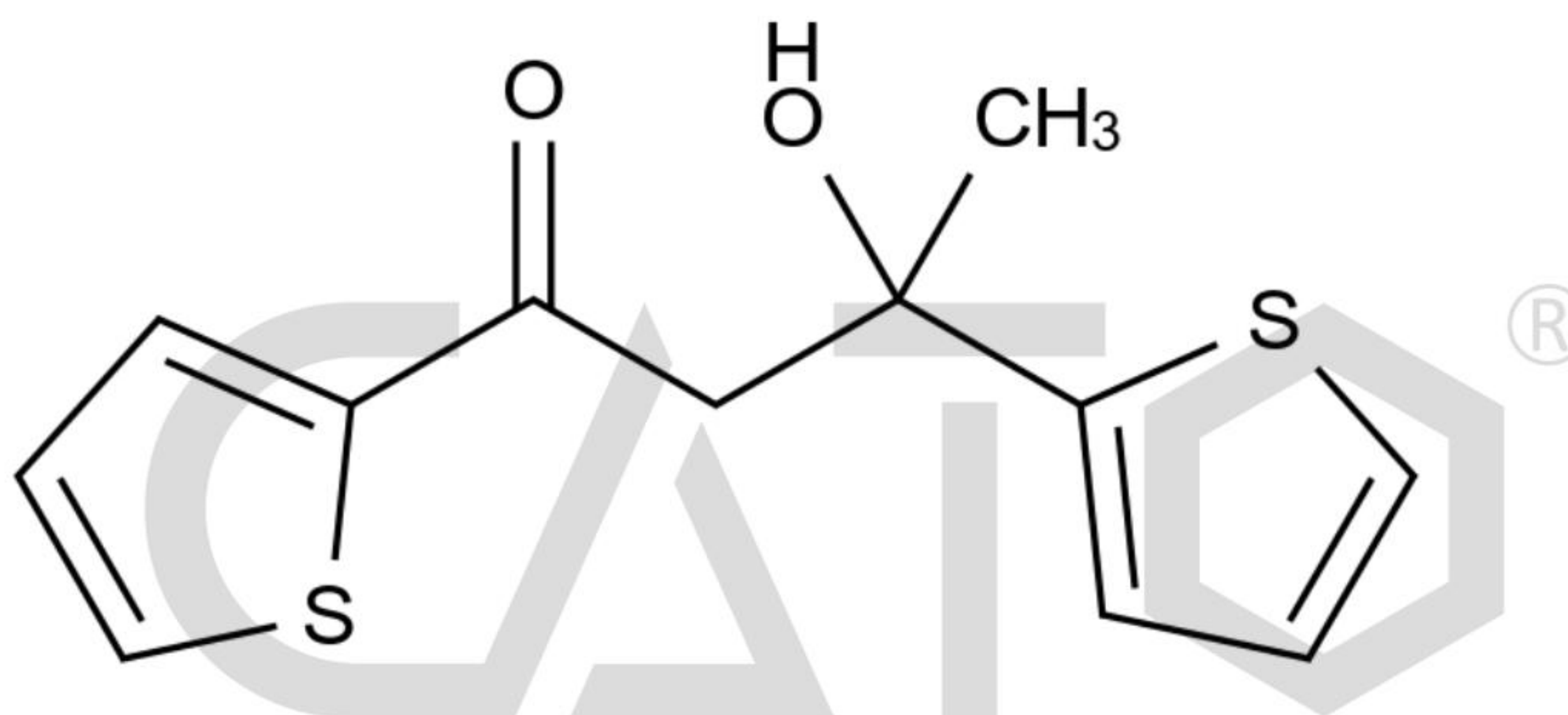


Certificate of Analysis

Reference Material & Standard

Product Name:	Duloxetine Impurity 48	Catalogue Number:	C4X-133648
Synonyms:	N/A	Lot Number:	0313-RH-0078
CAS Number:	2133315-16-7	Expiry Date:	Mar 10, 2030
Molecular Formula:	C ₁₂ H ₁₂ O ₂ S ₂	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	252.35	Shipping Condition:	Shipping with Ice Packs

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Pale Yellow Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.5097%
Residue on Ignition	TGA	0.628%
Assay		98.9%

Comment:

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

Assay (%) = (100% - Residue on Ignition) * Purity HPLC (%) / 100%

Residue on Ignition is considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Reviewed by:

Approved by General Manager:

Date: Mar 17, 2026

Date: Mar 17, 2026

Date: Mar 17, 2026



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