

Certificate of Analysis

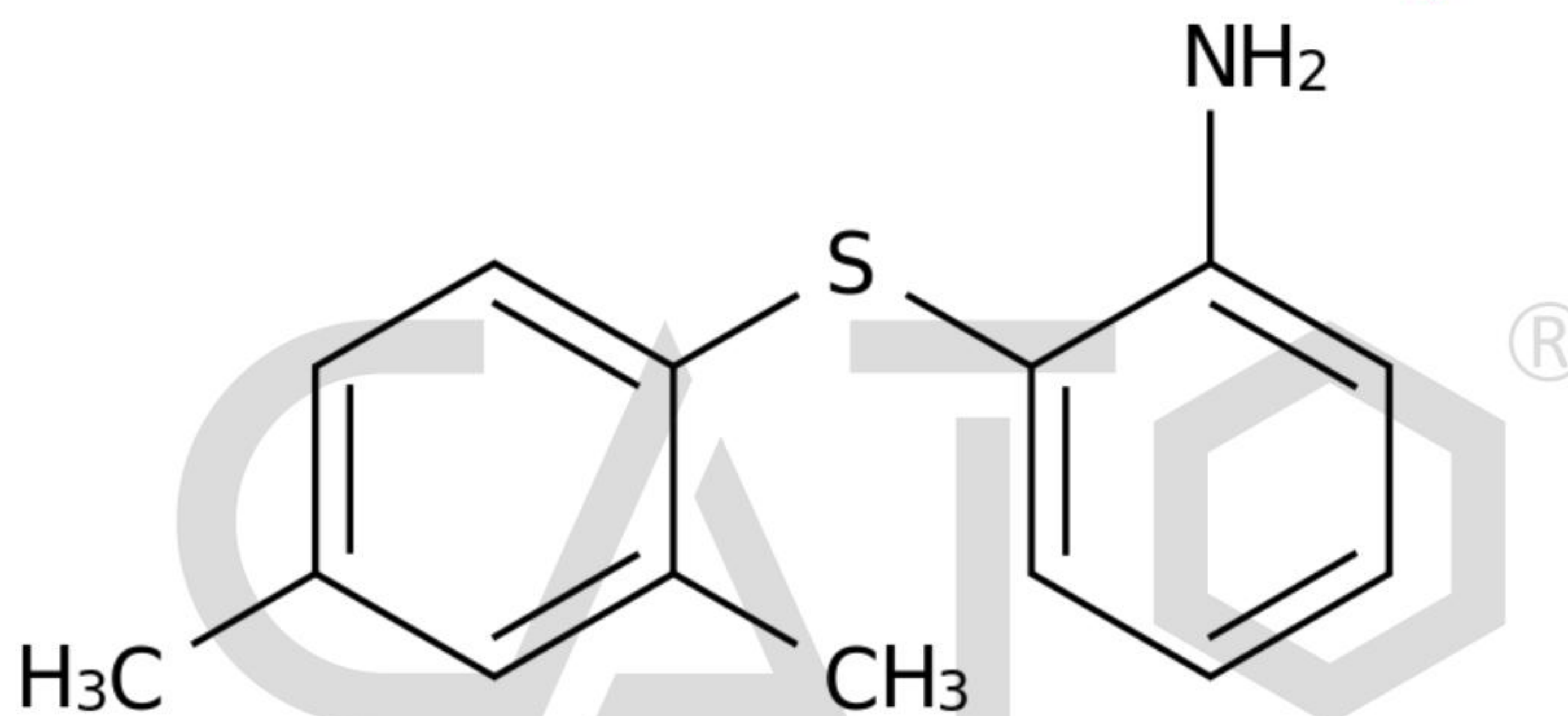
Reference Material & Standard

Product Name:	Vortioxetine Impurity 89	Catalogue Number:	C4X-105689
Synonyms:	2-((2,4-Dimethylphenyl)thio)aniline	Lot Number:	0126-RF-0044
CAS Number:	1019453-85-0	Expiry Date:	Jan 29, 2027
Molecular Formula:	C ₁₄ H ₁₅ NS	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	229.34	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Brown Liquid
Identification	LCMS&IR&UV&CNMR&HNMR	Confirmed
Purity	HPLC	96.807%
Loss On Drying	TGA	0.0736%
Assay		96.7%

Comment:

The calculation of the mass balance 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:

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Reviewed by:

Koi

Approved by General Manager:

David

Date: Oct 30, 2025

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