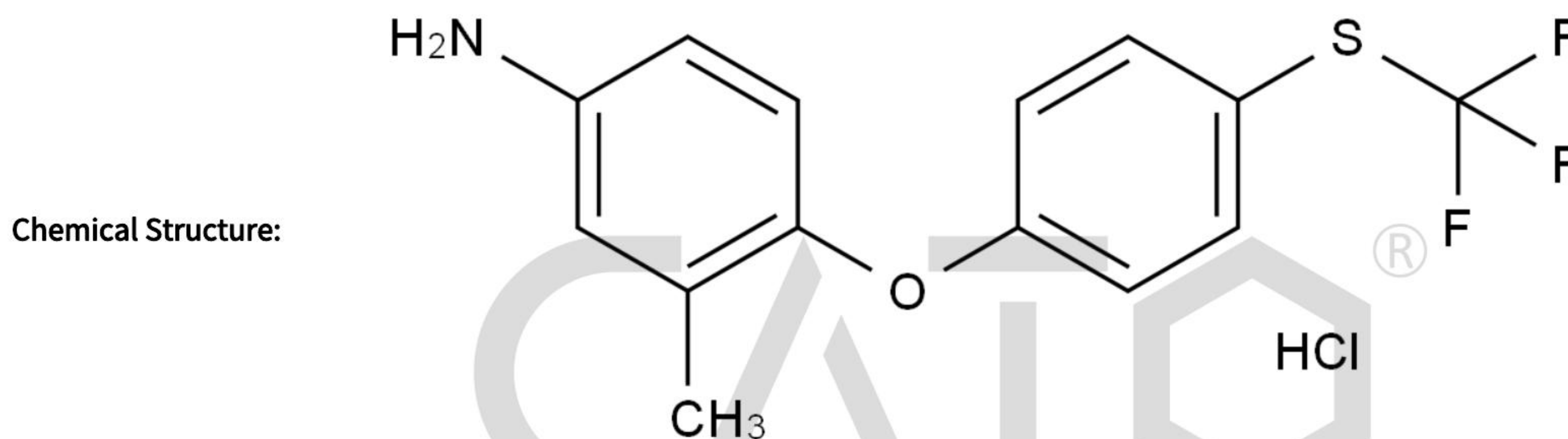


Certificate of Analysis

Reference Material & Standard

Product Name:	Toltrazuril Impurity 1 HCl	Catalogue Number:	C4X-24021
Synonyms:	N/A	Lot Number:	0512-RC-0042
CAS Number:	94155-78-9(free base)	Expiry Date:	Apr 26, 2024
Molecular Formula:	C ₁₄ H ₁₂ F ₃ NOS HCl	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	299.31 36.46		



Test Items	Method	Results
Appearance	Visual inspection	White to Off-White Solid
Identification	LCMS&IR&HNMR	Confirmed
Purity	HPLC	99.5680%
Water Content	Karl Fischer	0.4%
Residual Solvents	NMR	Not detected in NMR
Assay		99.2%

Comment:

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

Assay (%) = (100% - Water Content - Residual Solvents) * Purity HPLC (%) / 100%

Water Content and Residual Solvents are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Debia

Reviewed by:

Debia

Approved by General Manager:

David

Date: May 12, 2021

Date: May 13, 2021

Date: May 13, 2021



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