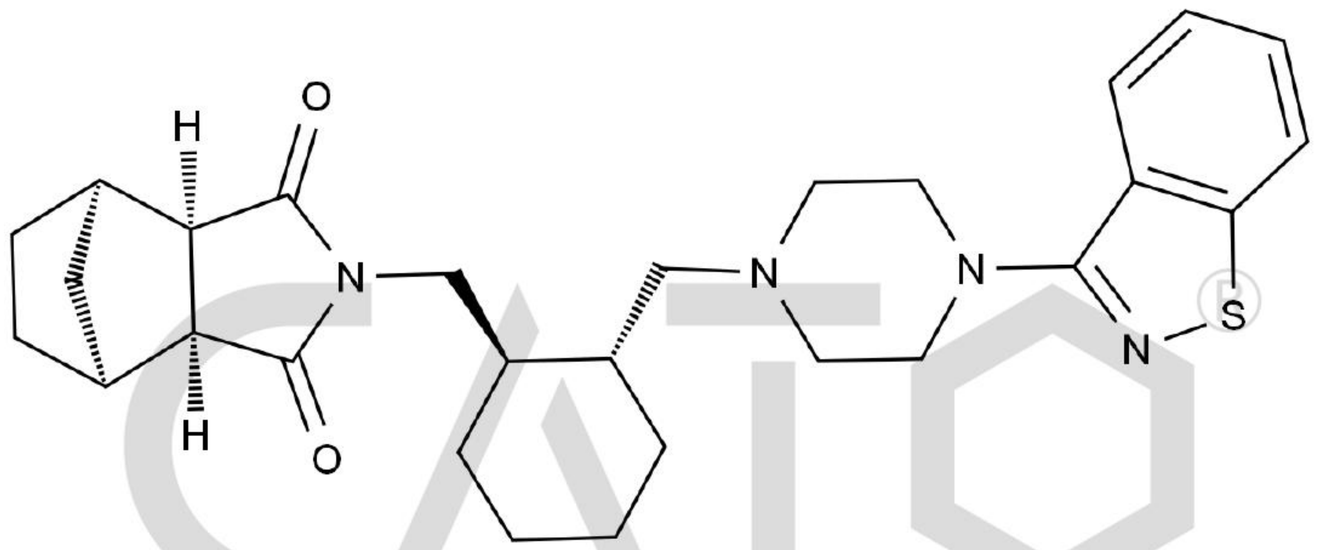
Certificate of Analysis

Reference Material & Standard

Product Name:	Lurasidone Impurity 48	**Catalogue Number:**	C4X-102848
Synonyms:	N/A	**Lot Number:**	0722-RF-0098
CAS Number:	1318074-25-7	**Expiry Date:**	Oct 15, 2030
Molecular Formula:	$C_{28}H_{36}N_4O_2S$	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	492.68	**Shipping Condition:**	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&IR&CNMR&HNMR	Confirmed
Purity	HPLC	99.856%
Loss on Drying	TGA	0.2662%
Assay	Mass Balance	99.6%

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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: Koi Date: Oct 16, 2026

Reviewed by: Lisa Date: Oct 16, 2026

Approved by General Manager: David Date: Oct 16, 2026

CATO Research Chemicals Inc.