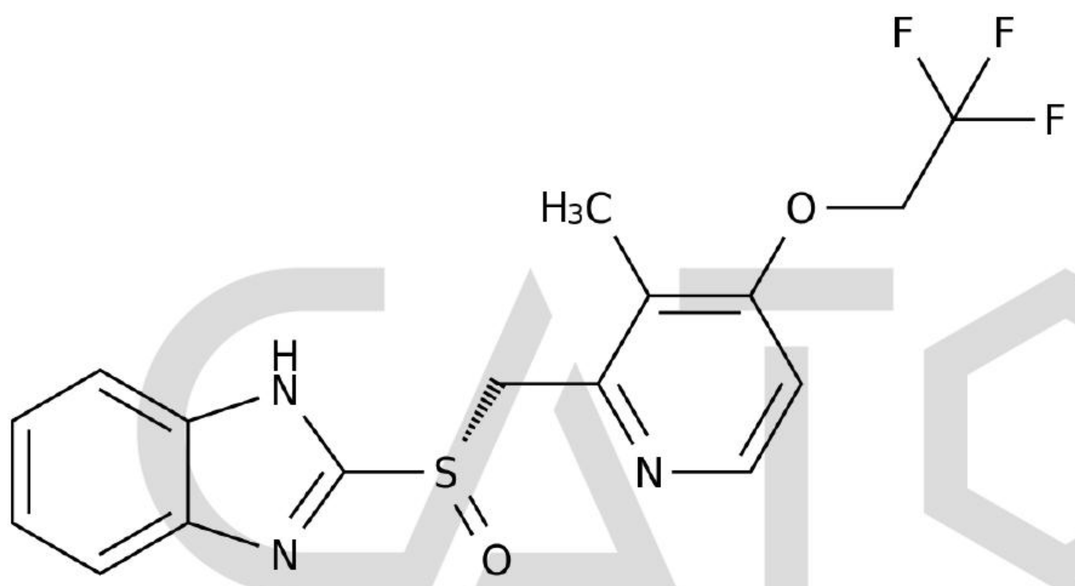
Certificate of Analysis

Reference Material & Standard

Product Name:	(S)-Lansoprazole	**Catalogue Number:**	C4X-111321
Synonyms:	N/A	**Lot Number:**	15B-12-8
CAS Number:	138530-95-7	**Expiry Date:**	May 26, 2030
Molecular Formula:	$C_{16}H_{14}F_3N_3O_2S$	**Storage:**	-20°C±5°C Protected from light and Sealed
Molecular Weight:	369.36	**Shipping Condition:**	Shipping with Ice Packs

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&CNMR&HNMR	Confirmed
Purity	HPLC	99.650%
Loss on Drying	TGA	0.0245%
Specific Rotation		[α]D19.5(c=1.0015,MeOH): -149.48°
Assay	Mass Balance	99.6%

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 19, 2026

Reviewed by: Lisa — Date: Oct 20, 2026

Approved by General Manager: David — Date: Oct 20, 2026

CATO Research Chemicals Inc.