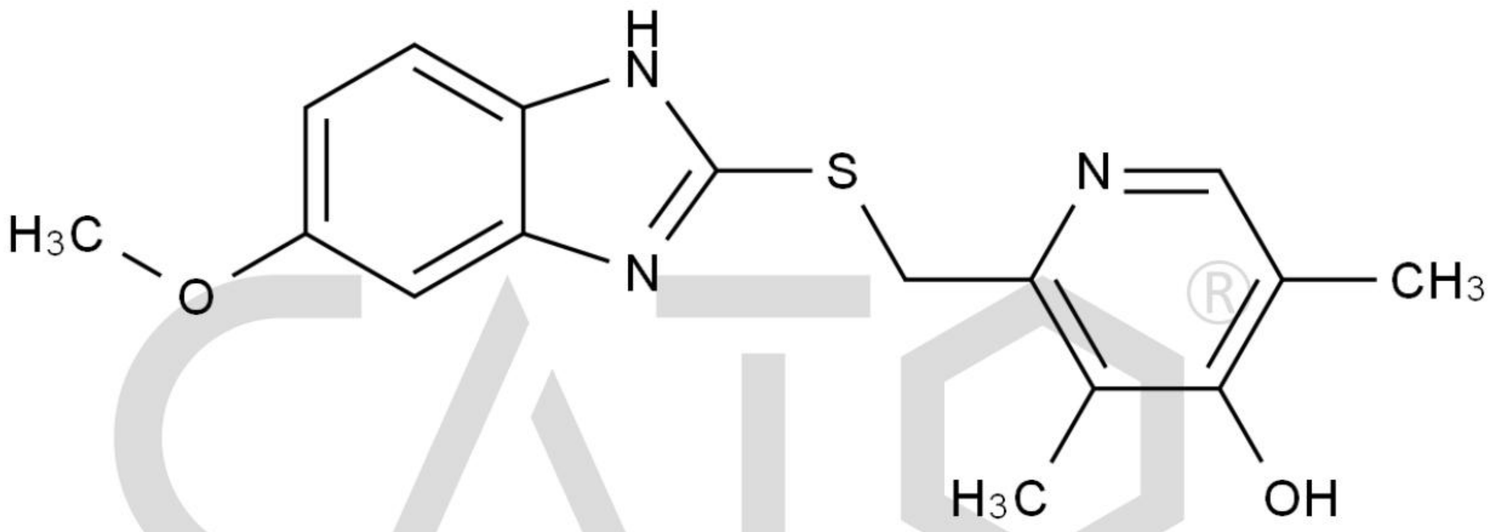
Certificate of Analysis

Reference Material & Standard

Product Name:	Esomeprazole Impurity 70	**Catalogue Number:**	C4X-111270
Synonyms:	N/A	**Lot Number:**	0111-RF-0043
CAS Number:	103876-98-8	**Expiry Date:**	Oct 07, 2030
Molecular Formula:	$C_{16}H_{17}N_3O_2S$	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	315.39	**Shipping Condition:**	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.656%
Water Content	Karl Fischer	0.68%
Residual Solvents	NMR	Not detected in NMR
Assay	Mass Balance	99.0%

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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: Date: Oct 13, 2026

Reviewed by: Date: Oct 13, 2026

Approved by General Manager: Date: Oct 13, 2026

CATO Research Chemicals Inc.