

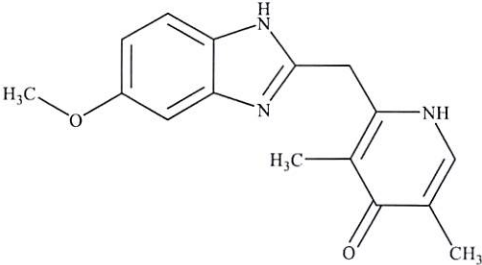
Certificate of Analysis

Certificate No.: **20250226502**


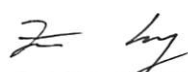
Date: February 26, 2025

Retest date: February 24, 2028

Compound Name: Esomeprazole Impurity 7	
Synonyms:	2-((5-methoxy-1 <i>H</i> -benzo[<i>d</i>]imidazol-2-yl)methyl)-3,5-dimethylpyridin-4(1 <i>H</i>)-one
TLC Catalogue Number:	O-0252
CAS Number:	1384163-92-1
Alternate CAS Number:	N/A
Molecular Weight:	283.33
Molecular Formula:	C ₁₆ H ₁₇ N ₃ O ₂
Source:	TLC Pharmaceutical Standards
Source Lot No.:	2395-100A2
Storage Conditions:	Store at 2-8 °C
Solubility:	Methanol, DMSO



Test Description	Specifications	Results
Visual Description	White to off-white solid	Conforms
Identification		
IR	Conforms to structure	Conforms
MS	Conforms to structure	Conforms
¹ H NMR	Conforms to structure	Conforms
Purity (HPLC)	Not less than 95.0%	99.5%
Impurity (HPLC)	RT 5.49, 0.27%	
Water Content (KF)	N/A	1.9%
Residual Solvents (NMR)	No residual solvent	
Assay (%)	Not less than 90.0%	97.6%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		02/26/2025
Approved by:	Quality Assurance		02/26/2025

Attachments: Peak Attribution Table, HPLC, IR, MS and NMR spectra.