

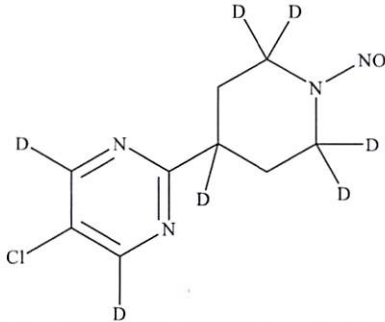
Certificate of Analysis

Certificate No.: 20260612010


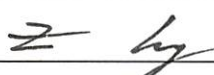
Date: June 12, 2026

Retest date: June 8, 2029

Compound Name: N-Nitroso Nerandomilast Impurity 2-d ₇	
Synonyms:	5-chloro-2-(1-nitrosopiperidin-4-yl-2,2,4,6,6-d ₅)pyrimidine-4,6-d ₂
TLC Catalogue Number:	N-184008
CAS Number:	N/A
Alternate CAS Number:	N/A
Molecular Weight:	233.71
Molecular Formula:	C ₉ H ₄ D ₇ ClN ₄ O
Source:	TLC Pharmaceutical Standards
Source Lot No.:	7470-003A3
Storage Conditions:	Store at 2-8 °C
Solubility:	Methanol, DMSO, Acetonitrile



Test Description	Specifications	Results
Visual Description	Off-white solid	Conforms
Identification		
MS	Conforms to structure	Conforms
¹ H NMR	Conforms to structure	Conforms
Purity (HPLC)	Not less than 95.0%	99.6%
Impurity (HPLC)	RT 4.25, 0.14%; RT 4.85, 0.28%	
Isotopic Enrichment	Not less than 95.0%	97.5%
Water Content (KF)	N/A	0.2%
Residual Solvents (NMR)	0.2% dichloromethane and 0.2% diethyl ether	
Assay (%)	Not less than 90.0%	99.0%
Recommendation:	Release. The compound is an N-Nitroso product. Avoid using metal spatula and applying pressure. Wear proper personal protective equipment when handling.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		06/12/2026
Approved by:	Quality Assurance		06/12/2026

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