

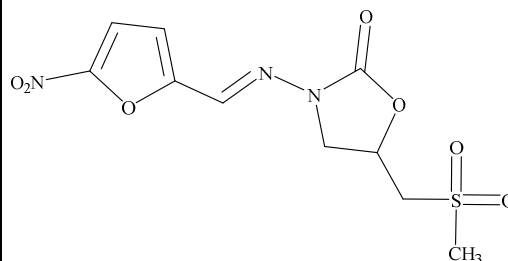
Certificate of Analysis

Certificate No.: 20200115013

Date: January 15, 2020

Retest date: January 7, 2023

Compound Name: Nifuratel Impurity 33	
Synonyms:	5-((methylsulfonyl)methyl)-3-(((5-nitrofur-2-yl)methylene)amino)oxazolidin-2-one
TLC Catalogue Number:	N-4736
CAS Number:	14360-12-4
Molecular Weight:	317.27
Molecular Formula:	C ₁₀ H ₁₁ N ₃ O ₇ S
Source:	TLC Pharmaceutical Standards
Source Lot No.:	3716-059A8
Storage Conditions:	Store at 2-8 °C
Solubility:	Methanol, DMSO, Acetonitrile



Test Description	Specifications	Results
Visual Description	Yellow solid	Conforms
Identification		
IR	Conforms to structure	Conforms
MS	Conforms to structure	Conforms
¹H NMR	Conforms to structure	Conforms
Purity (HPLC)	Not less than 95.0%	98.1%
Impurity (HPLC)	RT 5.63, 1.31%; RT 6.13, 0.38%; RT 12.40, 0.20%	
Water Content (KF)	N/A	0.1%
Residual Solvents (NMR)	0.1% acetonitrile	
Assay (%)	Not less than 90.0%	97.9%
Recommendation:	Released.	

Name	Department	Signature	Date
Reviewed and approved by:	Analytical Services		
Approved by:	Quality Assurance		

Attachments: HPLC, IR, MS and NMR spectra.