

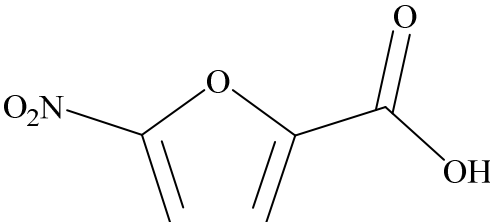
# Certificate of Analysis

Certificate No.: 20191106013

Date: November 6, 2019

Retest date: October 22, 2021

<b>Compound Name:</b> Nifuratel Impurity 9	
<b>Synonyms:</b>	5-nitrofuran-2-carboxylic acid
<b>TLC Catalogue Number:</b>	N-4712
<b>CAS Number:</b>	645-12-5
<b>Molecular Weight:</b>	157.08
<b>Molecular Formula:</b>	C <sub>5</sub> H <sub>3</sub> NO <sub>5</sub>
<b>Source:</b>	TLC Pharmaceutical Standards
<b>Source Lot No.:</b>	3205-033A2
<b>Storage Conditions:</b>	Store at 2-8 °C
<b>Solubility:</b>	Methanol, DMSO, DMF, Acetonitrile



Test Description	Specifications	Results
<b>Visual Description</b>	Off-white solid	<b>Conforms</b>
<b>Identification</b>		
IR	Conforms to structure	<b>Conforms</b>
MS	Conforms to structure	<b>Conforms</b>
<sup>1</sup> H NMR	Conforms to structure	<b>Conforms</b>
<b>Purity (HPLC)</b>	Not less than 95.0%	<b>99.9%</b>
<b>Impurity (HPLC)</b>	N/A	
<b>Water Content (KF)</b>	N/A	<b>0.1%</b>
<b>Residual Solvents (NMR)</b>	0.1% acetonitrile	
<b>Assay (%)</b>	Not less than 90.0%	<b>99.7%</b>
<b>Recommendation:</b>	<b>Released.</b>	

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

**Attachments:** HPLC, IR, MS and NMR spectra.