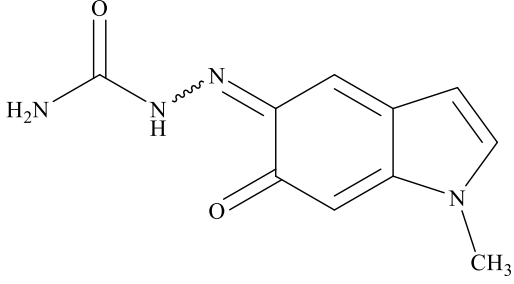


# Certificate of Analysis

Certificate No.: 20200702005

Date: July 2, 2020

Retest date: June 29, 2023

<b>Compound Name:</b>	<b>Carbazochrome Impurity 1</b>	
<b>Synonyms:</b>	2-(1-methyl-6-oxo-1,6-dihydro-5H-indol-5-ylidene)hydrazine-1-carboxamide	
<b>TLC Catalogue Number:</b>	C-163003	
<b>CAS Number:</b>	70063-06-8	
<b>Molecular Weight:</b>	218.22	
<b>Molecular Formula:</b>	C <sub>10</sub> H <sub>10</sub> N <sub>4</sub> O <sub>2</sub>	
<b>Source:</b>	TLC Pharmaceutical Standards	
<b>Source Lot No.:</b>	3866-053A1	
<b>Storage Conditions:</b>	Store at 2-8 °C	
<b>Solubility:</b>	DMSO, DMF	

Test Description	Specifications	Results
<b>Visual Description</b>	Black solid	<b>Conforms</b>
<b>Identification</b>		
<b>IR</b>	Conforms to structure	<b>Conforms</b>
<b>MS</b>	Conforms to structure	<b>Conforms</b>
<b><sup>1</sup>H NMR</b>	Conforms to structure	<b>Conforms</b>
<b>Purity (HPLC)</b>	Not less than 95.0%	<b>99.2%</b>
<b>Impurity (HPLC)</b>	RT 1.21, 0.23%; RT 2.32, 0.34%	
<b>Water Content (KF)</b>	N/A	<b>0.8%</b>
<b>Residual Solvents (NMR)</b>	0.9% dimethylformamide	
<b>Assay (%)</b>	Not less than 90.0%	<b>97.5%</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.