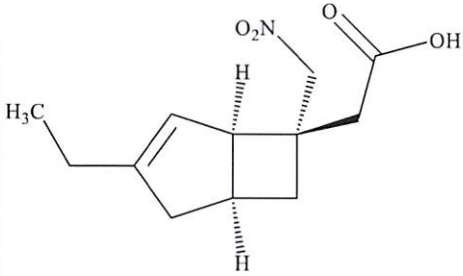


# Certificate of Analysis


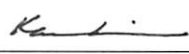
 Certificate No.: **20260609002**

Date: June 9, 2026

Retest date: May 29, 2029

<b>Compound Name:</b> Mirogabalin Impurity 20		
<b>Synonyms:</b>	2-((1R,5S,6S)-3-ethyl-6-(nitromethyl)bicyclo[3.2.0]hept-3-en-6-yl)acetic acid	
<b>TLC Catalogue Number:</b>	M-269026	
<b>CAS Number:</b>	1644251-45-5	
<b>Alternate CAS Number:</b>	N/A	
<b>Molecular Weight:</b>	239.27	
<b>Molecular Formula:</b>	C <sub>12</sub> H <sub>17</sub> NO <sub>4</sub>	
<b>Source:</b>	TLC Pharmaceutical Standards	
<b>Source Lot No.:</b>	7450-025A3	
<b>Storage Conditions:</b>	Store at 2-8 °C	
<b>Solubility:</b>	Methanol, DMSO, 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>98.6%</b>
<b>Impurity (HPLC)</b>	RT 0.95, 0.95%; RT 7.58, 0.24%	
<b>Optical Rotation</b>	N/A	[α] <sub>D</sub> <sup>25.0</sup> (c=0.60, CH <sub>3</sub> OH): <b>-130.5°</b>
<b>Residual Solvents (NMR)</b>	1.1% diethyl ether	
<b>Assay (qNMR)</b>	Not less than 90.0%	<b>95.6%</b>
<b>Recommendation:</b>	<b>Release.</b>	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		06/09/2026
Approved by:	Quality Assurance		06/09/2026

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