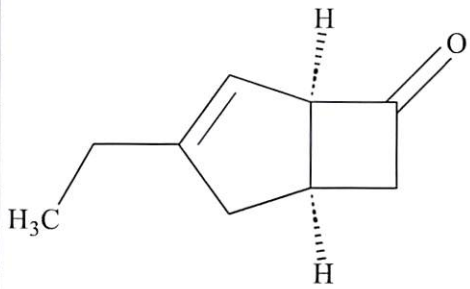


## Certificate of Analysis



Certificate No.: 20260623014

Date: June 23, 2026

Retest date: June 2, 2029

<b>Compound Name:</b> Mirogabalin Impurity 25		
<b>Synonyms:</b>	(1R,5S)-3-ethylbicyclo[3.2.0]hept-3-en-6-one	
<b>TLC Catalogue Number:</b>	M-269033	
<b>CAS Number:</b>	1235479-61-4	
<b>Alternate CAS Number:</b>	N/A	
<b>Molecular Weight:</b>	136.19	
<b>Molecular Formula:</b>	C <sub>9</sub> H <sub>12</sub> O	
<b>Source:</b>	TLC Pharmaceutical Standards	
<b>Source Lot No.:</b>	7450-021A1	
<b>Storage Conditions:</b>	Store at 2-8 °C	
<b>Solubility:</b>	Methanol, DMSO, Acetonitrile	

Test Description	Specifications	Results
<b>Visual Description</b>	Pale yellow liquid	<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 (GC)</b>	Not less than 95.0%	<b>96.3%</b>
<b>Impurity (GC)</b>	RT 11.75, 0.40%; RT 12.37, 0.60%; RT 13.22, 0.93%	
<b>Optical Rotation</b>	N/A	[α] <sub>D</sub> <sup>25.0</sup> (c=1.03, CH <sub>3</sub> OH): <b>-866.2°</b>
<b>Residual Solvents (NMR)</b>	No residual solvent	
<b>Assay (qNMR)</b>	Not less than 90.0%	<b>92.3%</b>
<b>Recommendation:</b>	<b>Release.</b>	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		06/24/2026
Approved by:	Quality Assurance		06/24/2026

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