

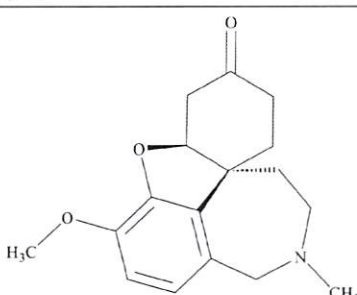
## Certificate of Analysis

Certificate No.: 20240909018



Date: September 9, 2024

Retest date: September 6, 2027

<b>Compound Name:</b> Dihydro Galanthaminone	
<b>Synonyms:</b>	(4a <i>S</i> ,8a <i>R</i> )-3-methoxy-11-methyl-4a,5,7,8,9,10,11,12-octahydro-6 <i>H</i> -benzo[2,3]benzofuro[4,3- <i>cd</i> ]azepin-6-one
<b>TLC Catalogue Number:</b>	G-0121
<b>CAS Number:</b>	21041-10-1
<b>Molecular Weight:</b>	287.36
<b>Molecular Formula:</b>	C <sub>17</sub> H <sub>21</sub> NO <sub>3</sub>
<b>Source:</b>	TLC Pharmaceutical Standards
<b>Source Lot No.:</b>	3215-034A9
<b>Storage Conditions:</b>	Store at 2-8 °C
<b>Solubility:</b>	Methanol, DMSO



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>98.9%</b>
<b>Impurity (HPLC)</b>	RT 4.96, 0.22%; RT 14.07, 0.25%; RT 14.90, 0.42%	
<b>Purity (Chiral HPLC)</b>	Not less than 98.0%	<b>100.0%</b>
<b>Optical Rotation</b>	N/A	[α] <sub>D</sub> <sup>20.0</sup> (c=0.32, CH <sub>3</sub> OH): <b>-254.5°</b>
<b>Residual Solvents (NMR)</b>	0.1% methanol	
<b>Assay (qNMR)</b>	Not less than 90.0%	<b>92.9%</b>
<b>Recommendation:</b>	<b>Release.</b>	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		09/10/2024
Approved by:	Quality Assurance		09/10/2024

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