

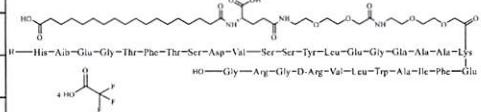
# Certificate of Analysis

Certificate No.: 20251205008


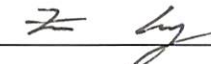
Date: December 5, 2025

Retest date: November 28, 2028

<b>Compound Name:</b> Semaglutide Impurity 59 (D-Arg 28) Tetratetrafluoroacetate	
<b>TLC Catalogue Number:</b>	PS-189075
<b>CAS Number:</b>	N/A
<b>Alternate CAS Number:</b>	N/A
<b>Molecular Weight:</b>	4113.64 4*114.02
<b>Molecular Formula:</b>	C <sub>187</sub> H <sub>291</sub> N <sub>45</sub> O <sub>59</sub> . 4 C <sub>2</sub> HF <sub>3</sub> O <sub>2</sub>
<b>Source:</b>	TLC Pharmaceutical Standards
<b>Source Lot No.:</b>	7056-073A11
<b>Storage Conditions:</b>	Store at 2-8 °C
<b>Solubility:</b>	Solution of Water and Acetonitrile, DMSO, DMF



Test Description	Specifications	Results
<b>Visual Description</b>	White to 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>
<sup>19</sup> F NMR	Conforms to structure	<b>Conforms</b>
<b>Purity (HPLC)</b>	Not less than 95.0%	<b>97.1%</b>
<b>Impurity (HPLC)</b>	RT 28.19, 0.75%; RT 29.60, 1.03%; RT 29.67, 0.46%	
<b>Water Content (KF)</b>	N/A	<b>3.7%</b>
<b>Residual Solvents (NMR)</b>	0.1% acetonitrile	
<b>Assay (%)</b>	Not less than 90.0%	<b>93.4%</b>
<b>Recommendation:</b>	<b>Release.</b>	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		12/05/2025
Approved by:	Quality Assurance		12/05/2025

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