

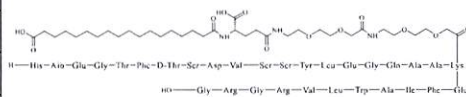
## Certificate of Analysis

Certificate No.: 20250929007



Date: September 29, 2025

Retest date: September 24, 2028

<b>Compound Name:</b> Semaglutide Impurity 51 (D-Thr 7)	
<b>TLC Catalogue Number:</b>	PS-189067
<b>CAS Number:</b>	N/A
<b>Alternate CAS Number:</b>	N/A
<b>Molecular Weight:</b>	4113.64
<b>Molecular Formula:</b>	C <sub>187</sub> H <sub>291</sub> N <sub>45</sub> O <sub>59</sub>
<b>Source:</b>	TLC Pharmaceutical Standards
<b>Source Lot No.:</b>	7014-037A11
<b>Storage Conditions:</b>	Store at 2-8 °C
<b>Solubility:</b>	Acidic solution



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>
<b>Purity (HPLC)</b>	Not less than 95.0%	<b>97.3%</b>
<b>Impurity (HPLC)</b>	RT 19.95, 0.88%; RT 22.17, 1.28%; RT 25.54, 0.55%	
<b>Water Content (KF)</b>	N/A	<b>6.6%</b>
<b>Residual Solvents (NMR)</b>	0.1% acetic acid	
<b>Assay (%)</b>	Not less than 85.0%	<b>90.8%</b>
<b>Recommendation:</b>	<b>Release.</b>	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		09/30/2025
Approved by:	Quality Assurance		09/30/2025

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