

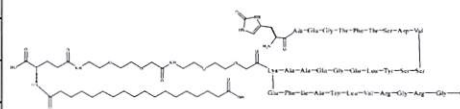
Certificate of Analysis

Certificate No.: 20250925005-2



Date: September 25, 2025

Retest date: September 15, 2028

Compound Name: Semaglutide Impurity 9 (L-2-Oxohistidine)	
TLC Catalogue Number:	PS-189012
CAS Number:	N/A
Alternate CAS Number:	N/A
Molecular Weight:	4129.64
Molecular Formula:	C ₁₈₇ H ₂₉₁ N ₄₅ O ₆₀
Source:	TLC Pharmaceutical Standards
Source Lot No.:	7056-029A8
Storage Conditions:	Store at 2-8 °C
Solubility:	Acidic solution



Test Description	Specifications	Results
Visual Description	White to off-white solid	Conforms
Identification		
IR	Conforms to structure	Conforms
MS	Conforms to structure	Conforms
¹ H NMR	Conforms to structure	Conforms
Purity (HPLC)	Not less than 90.0%	95.7%
Impurity (HPLC)	RT 22.29, 2.59%; RT 23.97, 0.70%; RT 24.33, 0.55%	
Water Content (KF)	N/A	6.3%
Residual Solvents (qNMR)	0.2% trifluoroacetic acid	
Assay (%)	Not less than 85.0%	89.5%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		11/19/2025
Approved by:	Quality Assurance		11/19/2025

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