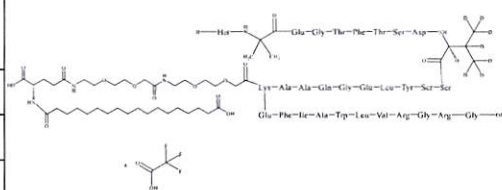


Certificate of Analysis



Certificate No.: 20250314022

Date: March 14, 2025

Retest date: March 7, 2028

Compound Name:	Semaglutide-d₈ Tetratrifluoroacetate	
Synonyms:	L-histidyl-2-methylalanyl-L- α -glutamylglycyl-L-threonyl-L-phenylalanyl-L-threonyl-L-seryl-L- α -aspartyl-L-valyl-d ₈ -L-seryl-L-seryl-L-tyrosyl-L-leucyl-L- α -glutamylglycyl-L-glutamyl-L-alanyl-L-alanyl-N ⁶ -[N-(17-carboxy-1-oxoheptadecyl)-L- γ -glutamyl-2-[2-(2-aminoethoxy)ethoxy]acetyl-2-[2-(2-aminoethoxy)ethoxy]acetyl]-L-lysyl-L- α -glutamyl-L-phenylalanyl-L-isoleucyl-L-alanyl-L-tryptophyl-L-leucyl-L-valyl-L-arginylglycyl-L-arginyl- Glycine, 2,2,2-trifluoroacetic acid (1:4)	
TLC Catalogue Number:	PS-189003	
CAS Number:	N/A	
Alternate CAS Number:	910463-68-2 (non-labelled, free base)	
Molecular Weight:	4121.69 4*114.02	
Molecular Formula:	C ₁₈₇ H ₂₈₃ D ₈ N ₄₅ O ₅₉ . 4 C ₂ HF ₃ O ₂	
Source:	TLC Pharmaceutical Standards	
Source Lot No.:	6692-076A10	
Storage Conditions:	Store at 2-8 °C	
Solubility:	DMSO, DMF, solution of Water and Acetonitrile	

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
¹⁹ F NMR	Conforms to structure	Conforms
Purity (HPLC)	Not less than 95.0%	97.3%
Impurity (HPLC)	RT 10.44, 0.48%; RT 17.53, 0.43%; RT 29.76, 0.84%	
Isotopic Enrichment	Not less than 98.0%	99.5%
Water Content (KF)	N/A	7.3%
Residual Solvents (qNMR)	1.7% trifluoroacetic acid	
Assay (%)	Not less than 85.0%	88.5%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		03/17/2025
Approved by:	Quality Assurance		03/17/2025

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