



NEWAY SINOPHC TECH. LIMITED

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Certificate of Analysis (COA)

Quality Release Date: 29 FEB 2026 Issue Date: 29 FEB 2026

Product Information

Product Name Semaglutide
Product Number SEM-20260229
Batch Number SEM-SH2026022901
Brand SIGALD
CAS Number 910463-68-2
MDL Number MFCD28192665
Formula $C_{187}H_{279}N_{47}O_{53}$
Formula Weight 4113.57 g/mol
Molecular Form Peptide (GLP-1 receptor agonist)

Test Results

Test	Specification (Pharmacopoeial/Industrial Standard)	Result	Unit	Test Method
Appearance (Color)	White to off-white	White	-	Visual Inspection
Appearance (Form)	Amorphous powder	Amorphous powder	-	Visual Inspection
Assay (Purity, on dry basis)	≥ 99.0%	99.6%	%	High Performance Liquid Chromatography (HPLC)
Peptide Content (by UV)	≥ 98.5%	99.2%	%	UV-Vis Spectrophotometry (280nm)
Loss on Drying	≤ 1.0%	0.35%	%	Gravimetric Method (60°C, 4h, vacuum)
Residue on Ignition	≤ 0.1%	0.01%	%	Ignition at 600°C±50°C
Heavy Metals (Pb)	≤ 2 ppm	0.4 ppm	ppm	Atomic Absorption Spectrometry (AAS)
Heavy Metals (As)	≤ 0.5 ppm	0.08 ppm	ppm	Atomic Fluorescence Spectrometry (AFS)
HPLC Purity (Main Peak)	≥ 99.0%	99.6%	%	Reverse-Phase HPLC (RP-HPLC)
Related Peptides	≤ 1.0%	0.3%	%	RP-HPLC
Water Content (Karl Fischer)	≤ 1.0%	0.42%	%	Karl Fischer Titration
Residual Solvents	Meets USP <467> limits	Compliant	-	Gas Chromatography (GC)
Bacterial Endotoxins	≤ 0.1 EU/μg	0.03 EU/μg	EU/μg	Limulus Amebocyte Lysate (LAL) Test
Total Aerobic Count	≤ 10 CFU/g	3 CFU/g	CFU/g	Plate Count Method
E. coli/Staphylococcus aureus	Negative	Negative	-	Microbiological Detection
Supplier Information	Confirmed	Confirmed	-	-
Registered Trademark	Confirmed	Confirmed	-	-

Certification

This batch of product has been tested in accordance with Chinese Pharmacopoeia (CP), USP and EP standards for Semaglutide and meets all specified requirements. It is qualified for pharmaceutical use (GMP grade).