



NEWAY SINOPHC TECH. LIMITED

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Certificate of Analysis (COA)

Quality Release Date: 20 FEB 2026 Issue Date: 20 FEB 2026

Product Information

Product Name Liraglutide
Product Number LIR-20260220
Batch Number LIR-SH2026022001
Brand SIGALD
CAS Number 204656-20-2
MDL Number MFCD09872351
Formula $C_{172}H_{265}N_{43}O_{51}$
Formula Weight 3751.20 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 lyophilized powder	Amorphous lyophilized powder	-	Visual Inspection
Assay (Purity, on dry basis)	≥ 99.0%	99.7%	%	Reverse-Phase High Performance Liquid Chromatography (RP-HPLC)
Peptide Content (by UV, 280nm)	≥ 98.5%	99.3%	%	UV-Vis Spectrophotometry
Loss on Drying	≤ 1.0%	0.29%	%	Gravimetric Method (60°C, 4h, vacuum)
Residue on Ignition	≤ 0.1%	0.01%	%	Ignition at 600°C±50°C
Heavy Metals (Pb)	≤ 2 ppm	0.3 ppm	ppm	Atomic Absorption Spectrometry (AAS)
Heavy Metals (As)	≤ 0.5 ppm	0.07 ppm	ppm	Atomic Fluorescence Spectrometry (AFS)
Related Peptides	≤ 1.0%	0.2%	%	RP-HPLC
Water Content	≤ 1.0%	0.38%	%	Karl Fischer Titration
Bacterial Endotoxins	≤ 0.1 EU/μg	0.02 EU/μg	EU/μg	Limulus Amebocyte Lysate (LAL) Test
Total Aerobic Count	≤ 10 CFU/g	2 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 Liraglutide and meets all specified requirements. It is qualified for pharmaceutical GMP grade use.