



NEWAY SINOPHC TECH. LIMITED

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Certificate of Analysis (COA)

Product Information

Item	Details
Product Name	Glucagon
Product Number	GCG-20260215
Batch Number	GCG-SH2026021501
Brand	SIGALD
CAS Number	9007-92-5
MDL Number	MFCD00130875
Formula	Polypeptide Hormone (29 Amino Acids)
Molecular Weight	3485.0 Da
Form	White Lyophilized Powder
Quality Release Date	15 FEB 2026

Test Results

Test	Specification (Biopharmaceutical Grade)	Result	Unit	Test Method
Appearance	White to off-white lyophilized powder	White lyophilized powder	-	Visual Inspection
Purity (HPLC)	≥ 98.0%	99.2%	%	High Performance Liquid Chromatography
Biological Activity	≥ 1.0 IU/mg	1.2 IU/mg	IU/mg	In Vivo Bioassay (Rat Blood Glucose Assay)
pH Value (1mg/mL in H ₂ O, 25°C)	2.5-3.5	3.1	-	Digital pH Meter
Moisture Content (Karl Fischer)	≤ 3.0%	1.5%	%	Karl Fischer Titration
Bacterial Endotoxin	≤ 1 EU/mg	0.4 EU/mg	EU/mg	Limulus Amebocyte Lysate Test
Sterility	Negative	Negative	-	Membrane Filtration Method
Heavy Metals (Pb)	≤ 5 ppm	0.6 ppm	ppm	Atomic Absorption Spectrometry (AAS)
Protein Content	≥ 95.0%	97.8%	%	Lowry Method
Amino Acid Analysis	Conforms to theoretical ratio	Conforms	-	HPLC Amino Acid Derivatization
Aggregation (SEC-HPLC)	≤ 1.0%	0.5%	%	Size Exclusion Chromatography

Certification

This batch of Glucagon has been tested in accordance with USP/EP biopharmaceutical industry standards and meets all specified requirements for purity, biological activity and quality control limits. It is qualified for biopharmaceutical R&D, in vitro diagnostics and diabetes-related research applications.

Issue Date: 15 FEB 2026