Customer:
HELIO

EA Sample ID: 26EA0731-573
Sample Name: GLP-1 (SM) 10mg
Sample Type: Lyophilized Powder
Batch/Lot: 222442-GL

Date Received:
07/31/2026
Date Completed:
08/03/2026

ETHOS ANALYTICS

CERTIFICATE OF ANALYSIS

Summary of Results

Analysis Type	Method	Date Tested	Status
Purity & Identity	RP-HPLC	08/03/2026	Pass
Heavy Metals	ICP-MS	08/03/2026	Pass
Sterility	PCR	08/03/2026	Pass
Endotoxin	USP <85>	08/03/2026	Reported

Serving Size: N/A

Peptide Analysis

Analyte	Specification	Result	Status
Peptide Purity (HPLC)	**≥ 95.0%**	**99.17%**	**PASS**
Net Peptide Content	**Report Only**	**10.61 mg**	**N/A**
Identity (HPLC-RTM)	**Semaglutide (GLP-1)**	**Confirmed**	**PASS**
Fentanyl Screen	**Immunoassay, 50 ng/mL cutoff**	**Not Detected**	**PASS**

HPLC Conformity Testing

Sample	Purity	NPC	Identity	Result
Dedicated V0	99.17%	10.61 mg	Confirmed	PASS
Conformity V1	98.10%	10.39 mg	Confirmed	PASS
Mean	98.63%	10.50 mg	—	—
Std Dev	0.5350%	0.1100 mg	—	—

LOD = LIMIT OF DETECTION; LOQ = LIMIT OF QUANTIFICATION

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Noel Samsum
Laboratory Director
03-Aug-2026

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Heavy Metals Analysis (ICP-MS)

Test	Specification	Result	Status
Arsenic (As)	NMT 1.5 ppm	Not Detected	**PASS**
Cadmium (Cd)	NMT 0.5 ppm	Not Detected	**PASS**
Lead (Pb)	NMT 1.0 ppm	Not Detected	**PASS**
Mercury (Hg)	NMT 1.5 ppm	Not Detected	**PASS**
Chromium (Cr)	NMT 10.0 ppm	Not Detected	**PASS**

Sterility & Endotoxin

Test	Specification	Result	Status
Sterility (PCR)	No Growth	No Growth	**PASS**
Endotoxin (USP <85>)	Report Result	NMT 0.05 EU/mL	**Reported**

Endotoxin is reported as a quantitative value. Acceptable limits vary by product type and matrix, so no universal pass/fail threshold applies to research-use-only products.

Notes & Methodology

1. Date tested 08/03/2026. Methods: purity, identity and quantitation by HPLC.
2. The sample was confirmed to be GLP-1 (SM) by HPLC, identified by chromatographic retention time comparison with a reference standard.
3. Elemental impurities analyzed by ICP-MS per USP <233> methodology. Acceptance criteria are internal laboratory quality screening limits for research-use materials and do not represent evaluation against any specific pharmacopeial monograph or product specification.
4. Endotoxin tested per USP <85> kinetic turbidimetric method. Acceptance criteria per client specification.
5. Peptide purity determined by RP-HPLC area normalization at 214 nm. The value represents the percentage of the target peptide relative to all peptide-related peaks. Non-peptide process-related impurities, if detected, are excluded from the calculation.

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