Certificate of Analysis

ILS Laboratories
8222 Vickers St, Suite 106, San Diego, CA 92111
(619) 329-3999 | ils-lab.com

GHk50 - 50mg

PASS

lumi PEPTIDES **Tested for: Lumi Peptides**
www.lumipeptides.com

COA #:	**COA-2026-412615**	Method:	**Full QC Panel**
Lot Number:	**LPGHK50-001**	Analysis Date:	**05/20/2026**
Accession #:	**ACC-2026-2481**	Appearance:	**Good**
Concentration:	**50mg**	Volume:	**3mL**
Sample Matrix:	**Lyophilized**	Received:	**05/14/2026**

Scan to verify authenticity at ils-lab.com

Identity	Purity	
GHk50	**99.81%**	Fentanyl Free

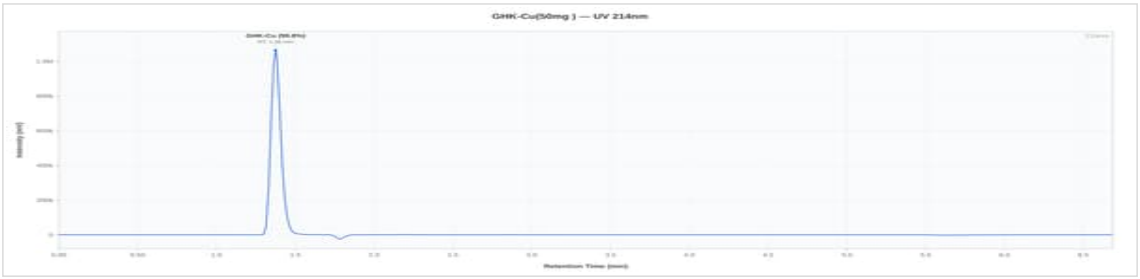


GHk50 50mg - LPGHK50-001

Purity & Quant (HPLC)

Analyte	Specification	Result	Unit	Status
Purity (HPLC)	>= 95.0%	**99.81%**	%	PASS
Net Peptide Content	Report Only	**53.46**	mg	N/A
Identity (ID)	GHK-Cu	**Confirmed**	-	PASS
Fentanyl Screen	Immunoassay, 50 ng/mL cutoff	**Not Detected**	-	PASS

HPLC Chromatogram



Representative chromatogram, Conformity V1 (99.81% purity, closest to batch mean of 99.81%)

HPLC Conformity Testing Results (2 samples tested)

Sample	Purity	NPC	ID	Result
Dedicated V0	99.80%	52.86 mg	Confirmed	PASS
Conformity V1	99.81%	53.46 mg	Confirmed	PASS
Mean	**99.81%**	**53.16 mg**	—	—
Std Dev	**0.0050%**	**0.3000 mg**	—	—

ilac-MRA PJLA Testing Accreditation No. 59423

Dr. Greg Kalyuzhny
Lab Director
5/24/2026

COA #: **COA-2026-412615**
Access Code: **A7BW9XPD**
Verify: portal.ils-lab.com/verify/4QNPL5Uz9pQ8DH1E
Issued: 5/24/2026

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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**
Chromium (Cr)	NMT 10 ppm	*Not Detected*	**PASS**
Mercury (Hg)	NMT 1.5 ppm	*Not Detected*	**PASS**
Lead (Pb)	NMT 1 ppm	*Not Detected*	**PASS**

Sterility Testing (PCR)

Test	Specification	Result	Status
Sterility (PCR)	No Growth	**No Growth**	**PASS**

Endotoxin Testing (USP <85>)

Test	Specification	Result	Status
Endotoxin (USP <85>)	Report Result	**0.059 EU/mL**	**Reported**

About this result: Endotoxin is reported as a quantitative value. Acceptable limits vary by product type and matrix, so no universal pass/fail threshold applies to RUO products. This result is below commonly referenced endotoxin thresholds.

Notes & Methodology

1. Date Tested: 05/21/2026. Methods: Purity & Quant (HPLC).
2. The sample was confirmed to be GHk50 by HPLC. Identification 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 acceptance limits are product-specific. Results reported for client evaluation.
5. Chromatogram shown is representative: Conformity V1 (99.81% purity, closest to batch mean of 99.81%).

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