Certificate of Analysis

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

LL-37 - 5mg

Tested for: Amino Club
aminoclub.com

PASS

COA #:	**COA-2026-WDRWDU**	Analysis Date:	**08/19/2026**
Lot Number:	**LL0001**	Appearance:	**Good**
Accession #:	**ACC-2026-15201**	Sample Matrix:	**Lyophilized**
Labeled Content:	**5mg**	Volume:	**3mL**
		Date Received:	**08/10/2026**

Scan to verify authenticity at ils-lab.com
Access Code: 6EGCR6AV

Method: **Full QC Panel**

Identity	Peptide Purity	
LL-37	**99.90%**	**Fentanyl Free**

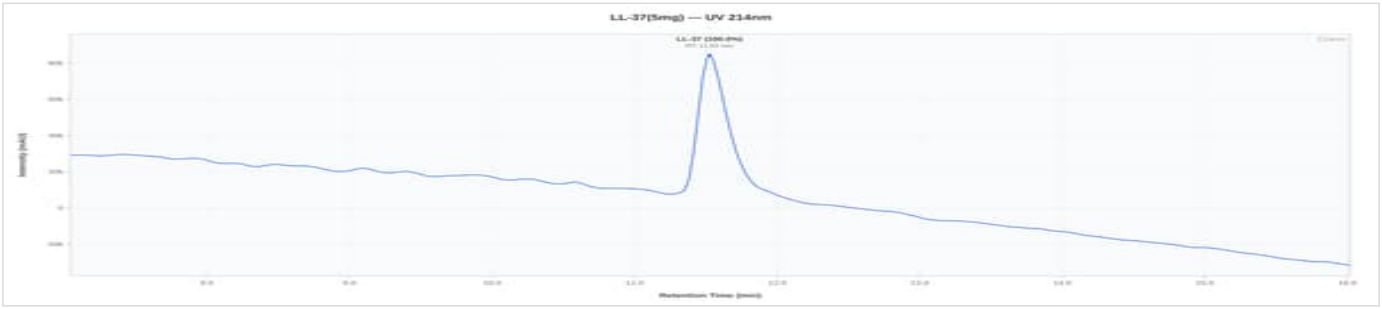


LL-37 5mg - LL0001

Purity, Identity & Quantitation (HPLC)

Analyte	Specification	Result	Unit	Status
Peptide Purity (HPLC)	>= 95.0%	**99.90%**	%	**PASS**
Net Peptide Content	Report Only	**5.34**	mg	N/A
Identity (HPLC-RTM)	LL-37	**Confirmed**	-	**PASS**
Fentanyl Screen	Immunoassay, 50 ng/mL cutoff	**Not Detected**	-	**PASS**

HPLC Chromatogram



LL-37 5mg - LL0001: UV Chromatogram

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**

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Dr. Greg Kalyuzhny
Lab Director
8/19/2026

COA #: **COA-2026-WDRWDU**
Access Code: **6EGCR6AV**
Verify: portal.ils-lab.com/verify/7SdOxyn_LgFbGk0q
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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	**0.069 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.

Certificate Change History

ILS QA

Revision 1 – reissued October 30, 2026
Certificate statement updated. Test results are unchanged. Supersedes the original issued 08/19/2026.

Notes & Methodology

1. Date Tested: 08/19/2026. Methods: Purity, Identity & Quantitation (HPLC).
2. The sample was confirmed to be LL-37 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 tested per USP <85> kinetic chromogenic method. Acceptance criteria per client specification.
5. Peptide purity determined by RP-HPLC area normalization at 214 nm. 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.
6. Purity values are capped at 99.9% to reflect instrument limit of detection (LOD). Trace impurities below the detection threshold may be present.
7. This certificate reports analytical results for the sample(s) submitted to ILS Laboratories for testing. All sample identifications, product names, brand names, lot/batch numbers, and labeled content are provided by the submitting party and have not been independently verified. Results reflect only the analytical testing of the specific sample(s) provided and do not constitute an evaluation or endorsement of the manufacturer's processes, quality systems, or overall production. ILS Laboratories makes no representations regarding the intended use, safety, efficacy, regulatory status, or intellectual property ownership of any materials tested.

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Quality System: ILS Laboratories operates an ISO/IEC 17025 quality management system.