

## ILS Laboratories

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

## IGF-LR3 - 1mg

Tested for: Apex Amino

**PASS**

COA #: COA-2026-955833  
Lot Number: G41386  
Accession #: ACC-2026-14558  
Labeled Content: 1mg

Analysis Date: 08/05/2026  
Appearance: Good  
Sample Matrix: Lyophilized  
Volume: 3mL  
Date Received: 2026-08-05



Scan to verify  
authenticity at ils-lab.com  
Access Code: N5XWC9VD

Method: Full QC Panel

Identity

IGF-LR3

Peptide Purity

99.66%

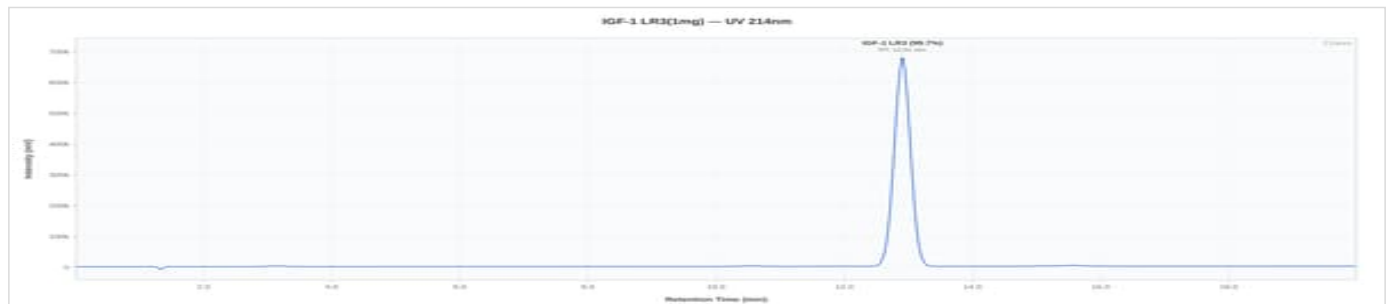


Fentanyl  
Free

### Full QC Panel

| Analyte               | Specification                | Result       | Unit | Status |
|-----------------------|------------------------------|--------------|------|--------|
| Peptide Purity (HPLC) | >= 95.0%%                    | 99.66%       | %%   | PASS   |
| Net Peptide Content   | Report Only                  | 1.05         | mg   | N/A    |
| Identity (HPLC-RTM)   | IGF-1 LR3                    | Confirmed    | -    | PASS   |
| Identity              | IGF-1 LR3                    | Confirmed    | ppm  | PASS   |
| Fentanyl Screen       | Immunoassay, 50 ng/mL cutoff | Not Detected | -    | PASS   |

### HPLC Chromatogram



IGF-LR3 1mg - G41386: 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   |



*Dr. Greg Kalyuzhny*

Dr. Greg Kalyuzhny  
Lab Director  
8/5/2026

COA #: COA-2026-955833  
Access Code: N5XWC9VD  
Verify: [portal.ils-lab.com/verify/78mgNu\\_LZhvLH2ff](portal.ils-lab.com/verify/78mgNu_LZhvLH2ff)  
Issued: 8/5/2026

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 | NMT 0.05 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: 08/13/2026. Methods: Full QC Panel.
2. The sample was confirmed to be IGF-LR3 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. 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.



  
**Dr. Greg Kalyuzhny**  
Lab Director  
8/5/2026

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