Certificate of Analysis

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

SS-31 - 10mg

Tested for: Zc Labs
https://zclabs.shop

PASS

Scan to verify authenticity at ils-lab.com
Access Code: TWKT7TJA

COA #:	**COA-2026-7BJXMX**	Analysis Date:	**10/16/2026**
Lot Number:	**ZC-S31-261012**	Sample Matrix:	**Lyophilized**
Accession #:	**ACC-2026-22994**	Volume:	**3mL**
Labeled Content:	**10mg**	Date Received:	**10/13/2026**

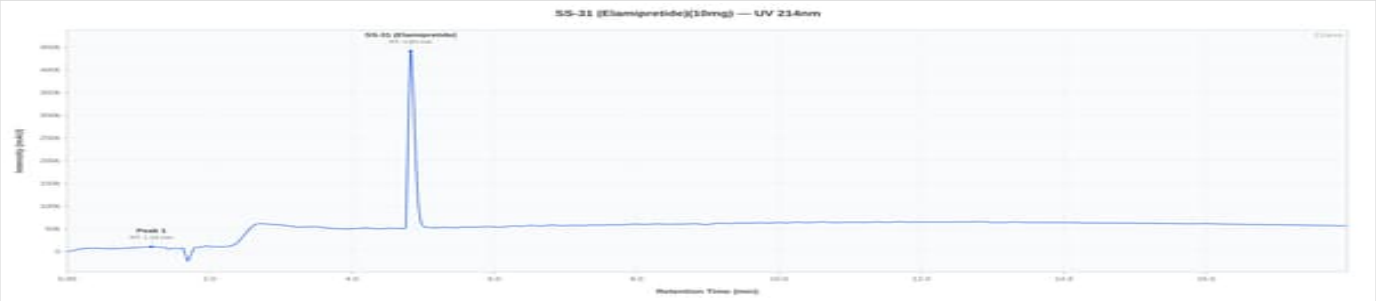
Method: **Full QC Panel**

Identity	Peptide Purity	
SS-31	**99.07%**	Fentanyl Free

Full QC Panel

Analyte	Specification	Result	Unit	Status
Peptide Purity (HPLC)	>= 95.0%	**99.07%**	%	**PASS**
Net Peptide Content	Report Only	**10.2**	mg	N/A
Identity (HPLC-RTM)	PS-31 (Elamipretide)	**Confirmed**	-	**PASS**
Fentanyl Screen	Immunoassay, 50 ng/mL cutoff	**Not Detected**	-	**PASS**

HPLC Chromatogram



SS-31 10mg - ZC-S31-261012: UV Chromatogram

Additional Analyses

Analyte	Specification	Result	Unit	Status
Product pH Potentiometric pH (USP <791>)	Report Only	**6.59**		Report Only
Solubility Analysis Visual Solubility Assessment (USP general notices descriptive terms)	Report Only	**Soluble** Solvent: Nuclease-Free Water Concentration: 3.33 mg/mL		Report Only
Closure Integrity Vacuum Leak Test (USP <1207>)	No leakage observed	**Pass**		Report Only

This certificate relates only to the sample(s) tested.

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 Testing (PCR)

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

Endotoxin Testing (USP <85>)

Test	Specification	Result	Status
Endotoxin (USP <85>)	NMT 0.25 EU/mL	**NMT 0.05 EU/mL**	**PASS**

Acceptance criteria: NMT 0.25 EU/mL per client specification.

Notes & Methodology

1. Date Tested: 10/16/2026. Methods: Full QC Panel.
2. The sample was confirmed to be SS-31 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. Quality System: ILS Laboratories operates an ISO/IEC 17025 quality management system. Peptide testing is performed for Research Use Only.
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.

ILS LABS

Issued by ILS Laboratories
(619) 329-3999
ils-lab.com

Dr. Greg Kalyuzhny
Lab Director
10/16/2026

COA #: **COA-2026-7BJXMX**
Access Code: **TWKT7TJA**
Verify: portal.ils-lab.com/verify/y_w5I8aj0WxoN4cO
Issued: 10/16/2026

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