Certificate of Analysis

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

MTS-31 - 10mg

Tested for: Crush Research
https://www.crushresearch.shop/

PASS

COA #:	**COA-2026-954683**	Analysis Date:	**07/31/2026**
Lot Number:	**CR-MTS31-10MG-2607-Black**	Appearance:	**Good**
Accession #:	**ACC-2026-11193**	Sample Matrix:	**Lyophilized**
Labeled Content:	**10mg**	Volume:	**3mL**
		Date Received:	**07/19/2026**

Scan to verify authenticity at ils-lab.com
Access Code: KZ6QYJ94

Method: **Full QC Panel**

Identity	Peptide Purity	
MTS-31	**99.61%**	**Fentanyl Free**

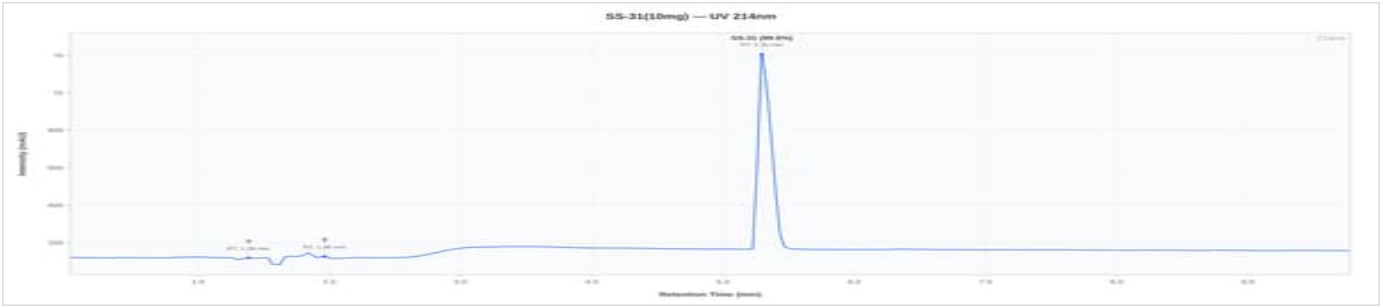


MTS-31 10mg - CR-MTS31-10MG-2607-Black

Purity, Identity & Quantitation (HPLC)

Analyte	Specification	Result	Unit	Status
Peptide Purity (HPLC)	>= 95.0%	**99.61%**	%	**PASS**
Net Peptide Content	Report Only	**10.48**	mg	N/A
Identity (HPLC-RTM)	SS-31	**Confirmed**	-	**PASS**
Fentanyl Screen	Immunoassay, 50 ng/mL cutoff	**Not Detected**	-	**PASS**

HPLC Chromatogram



Representative chromatogram, Conformity V2

HPLC Conformity Testing Results (3 samples tested)

Sample	Purity	NPC	ID	Result
Dedicated V0	99.61%	10.48 mg	Confirmed	**PASS**
Conformity V1	99.37%	10.68 mg	Confirmed	**PASS**
Conformity V2	99.59%	10.28 mg	Confirmed	**PASS**
Mean	**99.52%**	**10.48 mg**	—	—
Std Dev	**0.1087%**	**0.1633 mg**	—	—

Dr. Greg Kalyuzhny
Lab Director
7/31/2026

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Heavy Metals Analysis (ICP-MS)

Test	Specification	Result	Status
Arsenic (As)	NMT 1.5 ppm	.6662	**PASS**
Cadmium (Cd)	NMT 0.5 ppm	.2141	**PASS**
Lead (Pb)	NMT 1.0 ppm	.6611	**PASS**
Mercury (Hg)	NMT 1.5 ppm	.521	**PASS**
Chromium (Cr)	NMT 10.0 ppm	5.62	**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 5 EU/mL	**0.094 EU/mL**	**PASS**

Acceptance criteria: NMT 5 EU/mL per client specification.

Notes & Methodology

1. Date Tested: 07/31/2026. Methods: Purity, Identity & Quantitation (HPLC).
2. The sample was confirmed to be MTS-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 turbidimetric 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. Chromatogram shown is representative: Conformity V2 (99.59% purity, closest to batch mean of 99.52%).

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