Certificate of Analysis

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

MTT-31 - 10mg

PASS

Tested for: Southern Aminos
31938 Temecula Pkwy, Suite A PMB #361 Temecula, CA 92592 | www.southernaminos.com

COA #:	**COA-2026-TINFII**	Method:	**Full QC Panel**
Lot Number:	**MTT100526J**	Analysis Date:	**05/12/2026**
Accession #:	**ACC-2026-1939**	Appearance:	**Good**
Concentration:	**10mg**	Volume:	**3mL**
Sample Matrix:	**Lyophilized**	Received:	**05/05/2026**

Scan to verify authenticity at ils-lab.com

Identity	Purity	
MTT-31	**99.80%**	Fentanyl Free

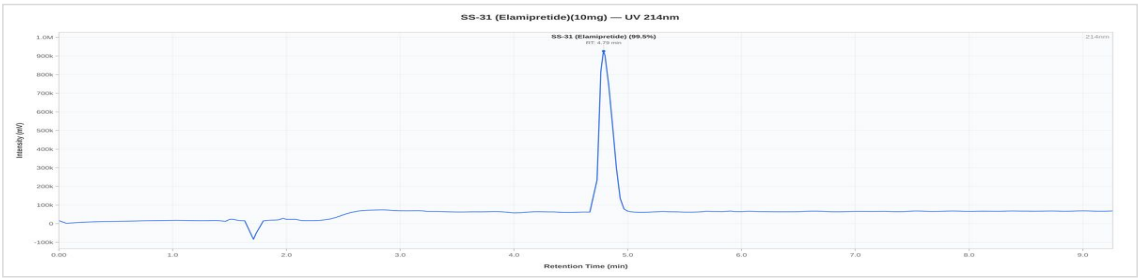


MTT-31 10mg - MTT100526J

Purity & Quant (HPLC)

Analyte	Specification	Result	Unit	Status
Purity (HPLC)	>= 95.0%	**99.80%**	%	PASS
Net Peptide Content	Report Only	**10.47**	mg	N/A
Identity (ID)	SS-31	**Confirmed**	-	PASS
Fentanyl Screen	Immunoassay, 50 ng/mL cutoff	**Not Detected**	-	PASS

HPLC Chromatogram



Representative chromatogram, Conformity V2 (99.63% purity, closest to batch mean of 99.63%)

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Dr. Greg Kalyuzhny
Lab Director
5/12/2026

COA #: **COA-2026-TINFII**
Access Code: **GBYFP0WI**
Verify: portal.ils-lab.com/verify/A7rfu3uRZjHee_00
Issued: 5/12/2026

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Accession #:	**ACC-2026-1939**	Appearance:	**Good**
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HPLC Conformity Testing Results (8 samples tested)

Sample	Purity	NPC	ID	Result
Dedicated V0	99.54%	10.34 mg	Confirmed	**PASS**
Conformity V1	99.42%	10.68 mg	Confirmed	**PASS**
Conformity V2	99.63%	10.63 mg	Confirmed	**PASS**
Conformity V3	99.65%	10.53 mg	Confirmed	**PASS**
Conformity V4	99.68%	*Pending*	Confirmed	**PASS**
Conformity V5	N/A	*Pending*	Confirmed	**PENDING**
Conformity V6	99.80%	10.47 mg	Confirmed	**PASS**
Conformity V7	99.69%	10.67 mg	Confirmed	**PASS**
Mean	**99.63%**	**10.55 mg**	—	—
Std Dev	**0.1119%**	**0.1215 mg**	—	—

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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COA #:	**COA-2026-TINFII**	Method:	**Full QC Panel**
Lot Number:	**MTT100526J**	Analysis Date:	**05/12/2026**
Accession #:	**ACC-2026-1939**	Appearance:	**Good**
Concentration:	**10mg**	Volume:	**3mL**
Sample Matrix:	**Lyophilized**	Received:	**05/05/2026**

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Sterility Testing (PCR)

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

Endotoxin Testing (USP <85>)

Test	Specification	Result	Unit	Status
Endotoxin (USP <85>)	< 0.25 EU/mL	**0.142 EU/mL**		**PASS**

Certificate Change History — **ILS QA**

Revision 1 – reissued October 30, 2026
Certificate statement updated. Test results are unchanged. Supersedes the original issued 05/12/2026.

Notes & Methodology

1. Date Tested: 05/12/2026. Methods: Purity & Quant (HPLC).
2. The sample was confirmed to be MTT-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 route-of-administration standard.
4. Chromatogram shown is representative: Conformity V2 (99.63% purity, closest to batch mean of 99.63%).

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Quality System: ILS Laboratories operates an ISO/IEC 17025 quality management system. This certificate relates only to the sample(s) tested.