Certificate of Analysis

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

SA-2T - 40mg

PASS

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

COA #:	**COA-2026-LBZZSG**	Analysis Date:	**08/12/2026**
Lot Number:	**2T400826A**	Appearance:	**Good**
Accession #:	**ACC-2026-14418**	Sample Matrix:	**Lyophilized**
Labeled Content:	**40mg**	Volume:	**3mL**
		Date Received:	**08/05/2026**

Scan to verify authenticity at ils-lab.com
Access Code: X9QU8BAR

Method: **Full QC Panel**

Identity	Peptide Purity	
SA-2T	**99.98%**	**Fentanyl Free**

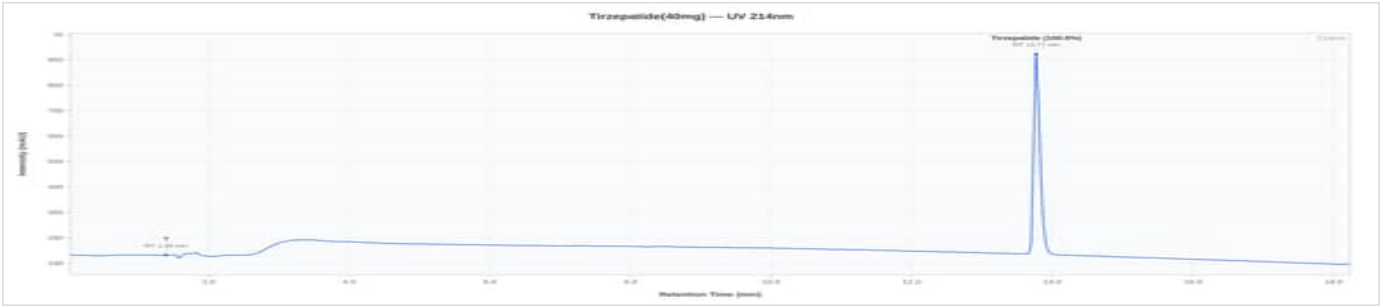


SA-2T 40mg - 2T400826A

Purity, Identity & Quantitation (HPLC)

Analyte	Specification	Result	Unit	Status
Peptide Purity (HPLC)	>= 95.0%	**99.98%**	%	**PASS**
Net Peptide Content	Report Only	**42.14**	mg	N/A
Identity (HPLC-RTM)	Tirzepatide	**Confirmed**	-	**PASS**
Fentanyl Screen	Immunoassay, 50 ng/mL cutoff	**Not Detected**	-	**PASS**

HPLC Chromatogram



Representative chromatogram, Conformity V2

Certificate Change History — **ILS QA**

Revision 1 – reissued October 30, 2026: Certificate statement updated. Test results are unchanged. Supersedes the original issued 08/12/2026.

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ils-lab.com

Dr. Greg Kalyuzhny
Lab Director
8/12/2026

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Access Code: **X9QU8BAR**
Verify: portal.ils-lab.com/verify/i7HBH3YOrgNTRYzk
Issued: 8/12/2026

HPLC Conformity Testing Results (8 samples tested)

Sample	Purity	NPC	ID	Result
Dedicated V0	99.97%	42.2 mg	Confirmed	PASS
Conformity V1	99.95%	41.59 mg	Confirmed	PASS
Conformity V2	99.92%	41.67 mg	Confirmed	PASS
Conformity V3	99.94%	41.54 mg	Confirmed	PASS
Conformity V4	99.95%	41.47 mg	Confirmed	PASS
Conformity V5	99.55%	41.52 mg	Confirmed	PASS
Conformity V6	99.98%	42.14 mg	Confirmed	PASS
Conformity V7	99.98%	42.9 mg	Confirmed	PASS
Mean	**99.91%**	**41.88 mg**	—	—
Std Dev	**0.1356%**	**0.4680 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
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>)	Report Result	**0.087 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: 08/12/2026. Methods: Purity, Identity & Quantitation (HPLC).
2. The sample was confirmed to be SA-2T 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. Chromatogram shown is representative: Conformity V2 (99.92% purity, closest to batch mean of 99.91%).

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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.