Certificate of Analysis

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

SA-3R/SA-2T - 35mg

PASS

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

COA #:	**COA-2026-C-NGHY**	Method:	**Full QC Panel**
Lot Number:	**3R2T0526A**	Analysis Date:	**05/21/2026**
Accession #:	**ACC-2026-2471**	Appearance:	**Good**
Concentration:	**35mg**	Volume:	**3mL**
Sample Matrix:	**Lyophilized**	Received:	**05/14/2026**

Scan to verify authenticity at ils-lab.com

Identity	Purity	
SA-3R/SA-2T	99.97%	Fentanyl Free



SA-3R/SA-2T 35mg - 3R2T0526A

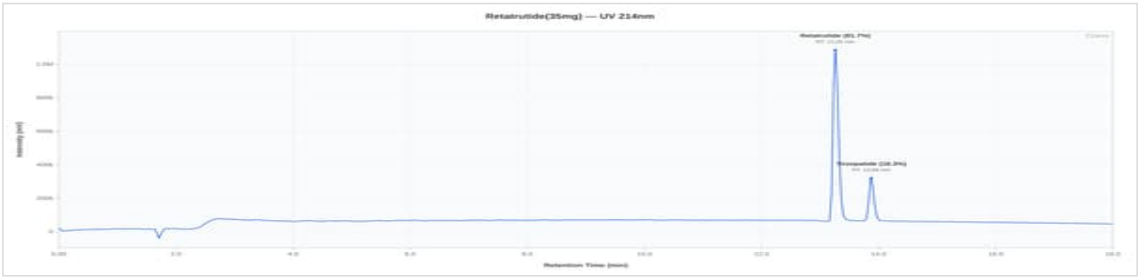
Blend Purity & Quant (HPLC)

Analyte	Specification	Result	Unit	Status
Purity (HPLC)	>= 95.0%	**99.97%**	%	PASS
Identity (ID)	RETATRUTIDE + TIRZAPETIDE	**Confirmed**	-	PASS
Fentanyl Screen	Immunoassay, 50 ng/mL cutoff	**Not Detected**	-	PASS

Additional Tests

Analyte	Specification	Result	Unit	Status
Net Blend Peptide Content	Report Only	**36.55**	mg	N/A
-- Retatrutide (86%)		*31.43*	*mg*	
-- Tirzapetide (14%)		*5.12*	*mg*	

HPLC Chromatogram



Representative chromatogram, Conformity V3 (99.93% purity, closest to batch mean of 99.94%)

Dr. Greg Kalyuzhny
Lab Director
5/21/2026

COA #: **COA-2026-C-NGHY**
Access Code: **HAEPRIN9**
Verify: portal.ils-lab.com/verify/zMygEYuIcG_Oc2vO
Issued: 5/21/2026

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HPLC Conformity Testing Results (8 samples tested)

Sample	Purity	NPC	ID	Result
Dedicated V0	99.97%	36.55 mg	Confirmed	PASS
Conformity V1	99.96%	36.62 mg	Confirmed	PASS
Conformity V2	99.95%	35.95 mg	Confirmed	PASS
Conformity V3	99.93%	35.94 mg	Confirmed	PASS
Conformity V4	99.92%	37.5 mg	Confirmed	PASS
Conformity V5	99.89%	37.24 mg	Confirmed	PASS
Conformity V6	99.95%	37.18 mg	Confirmed	PASS
Conformity V7	99.92%	35.85 mg	Confirmed	PASS
Mean	**99.94%**	**36.60 mg**	—	—
Std Dev	**0.0245%**	**0.6103 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

ilac-MRA PJLA Testing Accreditation No. 59423

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Lab Director
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Issued: 5/21/2026

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COA #:	**COA-2026-C-NGHY**	Method:	**Full QC Panel**
Lot Number:	**3R2T0526A**	Analysis Date:	**05/21/2026**
Accession #:	**ACC-2026-2471**	Appearance:	**Good**
Concentration:	**35mg**	Volume:	**3mL**
Sample Matrix:	**Lyophilized**	Received:	**05/14/2026**

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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	**0.095 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: 05/21/2026. Methods: Blend Purity & Quant (HPLC); Additional Tests.
2. The sample was confirmed to be SA-3R/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 acceptance limits are product-specific. Results reported for client evaluation.
5. Per-component content calculated from total net peptide content using the manufacturer's stated formulation ratio (Retatrutide 86%, Tirzapetide 14%). All components confirmed present by HPLC identity testing, unless explicitly stated otherwise.
6. Chromatogram shown is representative: Conformity V3 (99.93% purity, closest to batch mean of 99.94%).

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Lab Director
5/21/2026

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