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

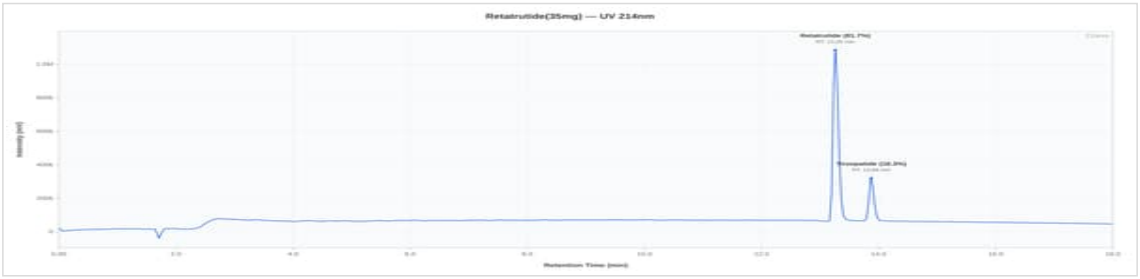
Blend Purity & Quant (HPLC)

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		*31.43*	*mg*	
-- Tirzapetide		*5.12*	*mg*	

HPLC Chromatogram



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

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Dr. Greg Kalyuzhny
Lab Director
5/24/2026

COA #: **COA-2026-C-NGHY**
Access Code: **HAEPRIN9**
Verify: portal.ils-lab.com/verify/zMygEYuIcG_Oc2vO
Issued: 5/24/2026

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Accession #:	**ACC-2026-2471**	Appearance:	**Good**
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Sample Matrix:	**Lyophilized**	Received:	**05/14/2026**

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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**

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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**

Scan to verify authenticity at ils-lab.com

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.

Certificate Change History — **ILS QA**

Revision 1 – reissued October 30, 2026
Certificate statement updated. Test results are unchanged. Supersedes the original issued 05/24/2026.

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, Tirzapetide). 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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