Certificate of Analysis

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

ARA-290 - 10mg

Tested for: Amino Club
aminoclub.com

PASS

COA #:	**COA-2026-VNPHQR**	Analysis Date:	**08/03/2026**
Lot Number:	**ARA0001**	Appearance:	**Good**
Accession #:	**ACC-2026-13565**	Sample Matrix:	**Lyophilized**
Labeled Content:	**10mg**	Volume:	**3mL**
		Date Received:	**07/31/2026**

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

Method: **Full QC Panel**

Identity	Peptide Purity	
ARA-290	**99.49%**	**Fentanyl Free**

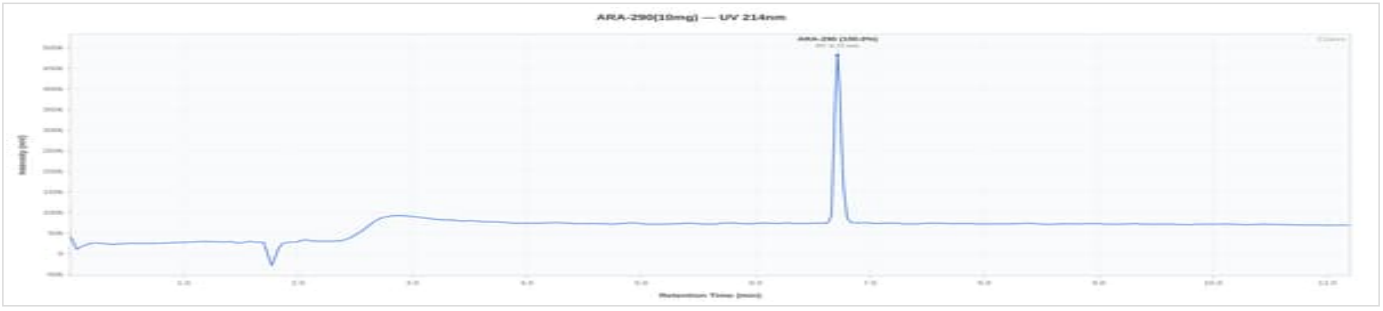


ARA-290 10mg - ARA0001

Purity, Identity & Quantitation (HPLC)

Analyte	Specification	Result	Unit	Status
Peptide Purity (HPLC)	>= 95.0%	**99.49%**	%	**PASS**
Net Peptide Content	Report Only	**10.57**	mg	N/A
Identity (HPLC-RTM)	ARA-290	**Confirmed**	-	**PASS**
Fentanyl Screen	Immunoassay, 50 ng/mL cutoff	**Not Detected**	-	**PASS**

HPLC Chromatogram



Representative chromatogram, Dedicated V0

HPLC Conformity Testing Results (2 samples tested)

Sample	Purity	NPC	ID	Result
Dedicated V0	99.49%	10.57 mg	Confirmed	**PASS**
Conformity V1	99.38%	10.58 mg	Confirmed	**PASS**
Mean	**99.44%**	**10.57 mg**	—	—
Std Dev	**0.0550%**	**0.0050 mg**	—	—

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Dr. Greg Kalyuzhny
Lab Director
8/3/2026

COA #: **COA-2026-VNPHQR**
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Verify: portal.ils-lab.com/verify/OxsI-Jg6doWEpUtr
Issued: 8/3/2026

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	**NMT 0.05 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.

Certificate Change History **ILS QA**

Revision 1 – reissued October 30, 2026
Certificate statement updated. Test results are unchanged. Supersedes the original issued 08/03/2026.

Notes & Methodology

1. Date Tested: 08/03/2026. Methods: Purity, Identity & Quantitation (HPLC).
2. The sample was confirmed to be ARA-290 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: Dedicated V0 (99.49% purity, closest to batch mean of 99.44%).

ILS LABS

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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.