Certificate of Analysis

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

Semax - 11mg

Tested for: Biodesignresearchusa

PASS

COA #:	**COA-2026-412725**	Method:	**Full QC Panel**
Lot Number:	**032026**	Analysis Date:	**05/19/2026**
Accession #:	**ACC-2026-2702**	Appearance:	**Good**
Labeled Content:	**11mg**	Sample Matrix:	**Lyophilized**
		Date Received:	**2026-05-18**

Scan to verify authenticity at ils-lab.com
Access Code: Y23JNGKM

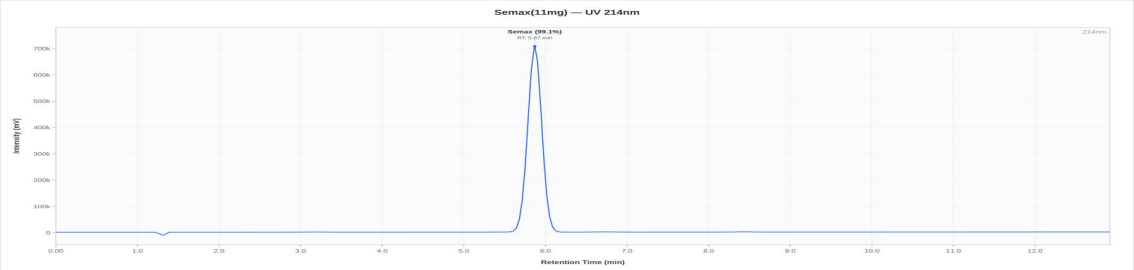
Identity	Peptide Purity
Semax	**99.07%**

Semax 11mg - 032026

Full QC Panel

Analyte	Specification	Result	Unit	Status
Peptide Purity (HPLC)	>= 95.0%%	**99.07%**	%%	**PASS**
Net Peptide Content	Report Only	**11.57**	mg	N/A
Identity (HPLC-RTM)	Semax	**Confirmed**	-	**PASS**

HPLC Chromatogram



Semax 11mg - 032026: UV Chromatogram

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**

Sterility Testing (PCR)

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

Dr. Greg Kalyuzhny
Lab Director
5/19/2026

COA #: **COA-2026-412725**
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Verify: portal.ils-lab.com/verify/1URffEp0m3nA9xRo
Issued: 5/19/2026

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. This result is below commonly referenced endotoxin thresholds.

Notes & Methodology

1. Date Tested: 06/05/2026. Methods: Full QC Panel.
2. The sample was confirmed to be Semax 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.

Dr. Greg Kalyuzhny
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