Certificate of Analysis

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

Semax - 10mg

10x Tested

PASS

Tested for: PS SUPPLY

COA #:	**COA-2026-HESWEX**	Analysis Date:	**10/23/2026**
Lot Number:	**Ps-002**	Appearance:	**Good**
Accession #:	**ACC-2026-23527**	Sample Matrix:	**Liquid/Solution**
Labeled Content:	**10mg**	Vial Size:	**15mL**
		Date Received:	**10/20/2026**

Scan to verify authenticity at ils-lab.com
Access Code: 46ZXGRVV

Method: **Full QC Panel**

Identity
Semax

Fentanyl Free



Semax 10mg - Ps-002

Full QC Panel

Analyte	Specification	Result	Unit	Status
Net Peptide Content	Report Only	**10.34**	mg	N/A
Identity (HPLC-RTM)	Semax	**Confirmed**	-	**PASS**
Fentanyl Screen	Immunoassay, 50 ng/mL cutoff	**Not Detected**	-	**PASS**

Additional Analyses

Product pH

Method: Potentiometric pH (USP <791>)
Result: 4.98 Spec: Report Only Status: Report Only

Solubility Analysis

Method: Visual Solubility Assessment (USP general notices descriptive terms)
Result: Fully soluble - clear solution Spec: Report Only Status: Report Only
Solvent: NA Concentration: NA

Closure Integrity

Method: Vacuum Leak Test (USP <1207>)
Result: No leakage observed Spec: No leakage observed Status: PASS

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>)	NMT 0.25 EU/mL	**NMT 0.05 EU/mL**	**PASS**
Acceptance criteria: NMT 0.25 EU/mL per client specification.			

Notes & Methodology

1. Date Tested: 10/23/2026. 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 chromogenic method. Acceptance criteria per client specification.
5. Accreditation Scope: ILS Laboratories maintains ISO/IEC 17025 accreditation for activities listed in its published PJLA scope. Peptide testing reported on this certificate is performed for Research Use Only.
6. This certificate reports analytical results for the sample(s) submitted to ILS Laboratories for testing. All sample identifications, product names, brand names, lot/batch numbers, and labeled content are provided by the submitting party and have not been independently verified. Results reflect only the analytical testing of the specific sample(s) provided and do not constitute an evaluation or endorsement of the manufacturer's processes, quality systems, or overall production. ILS Laboratories makes no representations regarding the intended use, safety, efficacy, regulatory status, or intellectual property ownership of any materials tested.

Issued by ILS Laboratories
(619) 329-3999
ils-lab.com

Dr. Greg Kalyuzhny
Lab Director
10/23/2026

COA #: **COA-2026-HESWEX**
Access Code: **46ZXGRVV**
Verify: portal.ils-lab.com/verify/LYloptfpMswPuNBn
Issued: 10/23/2026

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This certificate relates only to the sample(s) tested.