

Client: Ascension Peptides

Certified: 06/15/2026

This Certificate of Analysis certifies that the sample listed herein was tested by Kovera Labs using validated analytical methods and was found to meet the stated specifications at the time of analysis.

**SAMPLE INFORMATION**

Product	Semax	Form	Lyophilized powder
Batch	30-05260628	Labeled Qty	10 mg
Mol. Formula	C37H51N9O10S	CAS Number	80714-61-0
Cap Color	Red	Crimp Color	Silver

**TEST RESULTS**

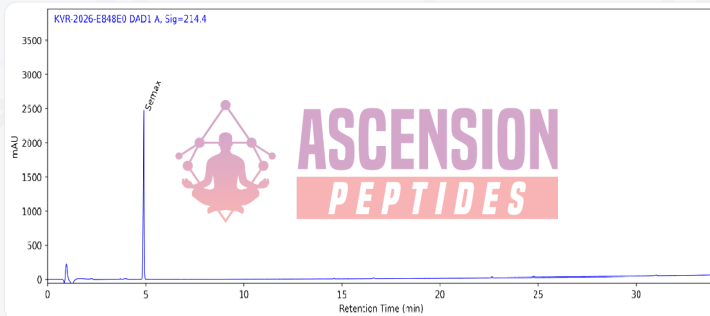
	REFERENCE STANDARD	RESULT	
Purity	(>98%)	99.886%	✔
Net Content	(~10mg)	11.23 mg	✔
Identity Confirmation (LC-MS)	(Semax)	Semax	✔
Endotoxin Safety Screen	(≤0.5 EU/mL)	PASS	✔
Microbial Sterility Screen	(No Growth)	No Growth	✔

**HEAVY METAL SCREENING**

Analyte	Result	Status
Arsenic (As)	Negative	✔
Cadmium (Cd)	Negative	✔
Lead (Pb)	Negative	✔
Mercury (Hg)	Negative	✔

**CHROMATOGRAM**

Method: RP-HPLC | Column: C18 | Detection: DAD @ 214 nm



### CLIENT & SAMPLE INFORMATION

Client	Ascension Peptides	Analysis Date	05/29/2026
Product Name	Semax	Strength	10 mg
Lot / Batch	30-05260628	Condition	Lyophilized

This Certificate of Analysis certifies that the sample listed herein was tested for bacterial endotoxin using a kinetic chromogenic LAL assay in accordance with USP <85> Bacterial Endotoxins Test.

### TEST METHODOLOGY

Test Performed	Quantitative Bacterial Endotoxin Test	Compendial Ref	USP <85>
Assay Type	Kinetic Turbidimetric	Detection $\lambda$	660 nm
Detection Range	0.01 - 1.0 EU/mL	Endotoxin Std	E. coli O111:B4
Dilution Vol	2.0 mL	Matrix	LAL Reagent Water

### QUANTITATIVE RESULTS

Parameter	Result
Endotoxin Level	< 0.20 EU/mL
Acceptance Limit	<input type="text" value="≤ 0.5 EU/mL"/>
Sample CV (%)	N/A
Spike CV (%)	N/A
Spike Recovery (%)	N/A
Final Determination	PASS

### CONTROLS

Control	Expected	Observed	Status
Positive Control	Detectable	As expected	Pass
Negative Control	No signal	As expected	Pass

### INTERPRETATION

Endotoxin content was quantitatively determined using a kinetic chromogenic LAL assay in accordance with USP <85>. Result reported as below quantitation threshold. The measured endotoxin level meets the specified acceptance criteria. The sample passes the endotoxin limit test.

### AUTHORIZATION

REVIEWED BY
<b>Lemar Arghandiwal</b>
Lab Director



## CLIENT &amp; SAMPLE INFORMATION

Client	Ascension Peptides	Analysis Date	May 30, 2026
Product Name	Semax	Strength	10 mg
Lot / Batch	30-05260628	Condition	Lyophilized

ICP-MS metals analysis performed using EPA-referenced methods; results evaluated against internal acceptance criteria.

## TEST METHODOLOGY

Test Performed	Elemental Impurities Analysis	Instrument	ICP-MS
Sample Prep	HNO <sub>3</sub> / H <sub>2</sub> O <sub>2</sub> matrix	Calibration	Multi-element standard curve
Internal Std	Sc, Ge, In, Bi	Material Type	Raw Material (Research Use)

## ELEMENTAL IMPURITIES RESULTS

Element	Result (ppm)	Acceptance Limit (ppm)	Status
Pb Lead	< 0.5	≤ 10	PASS
As Arsenic	< 0.15	≤ 1.5	PASS
Cd Cadmium	< 0.05	≤ 0.5	PASS
Hg Mercury	< 0.3	≤ 3	PASS

## METHOD SUITABILITY (SPIKE RECOVERY)

Element	Spike Level	Recovery	Criteria
Pb Lead	5 ppm	98%	70–150%
As Arsenic	0.75 ppm	102%	70–150%
Cd Cadmium	0.25 ppm	95%	70–150%
Hg Mercury	1.5 ppm	91%	70–150%

Spike recovery confirms method suitability for the sample matrix.

## INTERPRETATION

Elemental impurities were determined using ICP-MS with EPA-referenced analytical methods. All tested elements (Pb, As, Cd, Hg) are below the stated acceptance limits. Spike recovery values fall within acceptable ranges, confirming method suitability. The sample meets the stated acceptance criteria for elemental impurities.

## QUALITY CONTROL

Method Blank: Pass CCV: Pass Duplicate RPD: < 20%

## AUTHORIZATION

REVIEWED BY

Lemar Arghandiwal  
Lab Director



**CLIENT & SAMPLE INFORMATION**

<b>Client</b>	Ascension Peptides	<b>Sample Name</b>	Semax
<b>Lot Number</b>	30-05260628	<b>Date Received</b>	05/29/2026
<b>Date Certified</b>	05/29/2026	<b>Sample Matrix</b>	Lyophilized powder

**TEST METHODOLOGY**
**RAPID STERILITY SCREENING METHOD**

Sample is reconstituted and incubated in growth media under controlled conditions. Cultures are monitored for microbial growth over the incubation period. This rapid screening method provides preliminary sterility assessment and is suitable for quality control purposes. For regulatory compliance, full USP <71> sterility testing may be required.


**TEST RESULTS**

TEST PARAMETER	SPECIFICATION	RESULT	STATUS
Bacteria (Aerobic/Anaerobic)	No Growth	No Growth	PASS
Fungi / Yeast	Not Detected	Not Detected	PASS

TEST METHOD <b>Rapid Sterility</b>	INCUBATION PERIOD <b>2 days</b>	TEMPERATURE <b>30-35C</b>
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**FINAL DETERMINATION**



STERILITY SCREEN RESULT  
**SAMPLE PASSES STERILITY SCREEN**  
 No microbial growth detected during incubation period

