



# AEGIS PEPTIDE ANALYTICS

Certificate of Analysis  
Independent Third-Party Testing Laboratory



CERTIFICATE NO.  
**APA-2026-000059**

✓ **OVERALL PASS**

## SAMPLE INFORMATION

COMPOUND:	<b>Semax 10mg</b>	LOT NUMBER:	<b>BBL-260608-17</b>
CAS NUMBER:	<b>80714-61-0</b>	TEST DATE:	<b>June 4, 2026</b>
ISSUE DATE:	<b>June 7, 2026</b>	EXPIRY DATE:	<b>June 4, 2027</b>
CLIENT:	<b>Blackwell BioSciences</b>	TESTING METHODS:	<b>HPLC-UV · LC-MS/MS · ICP-MS · Karl Fischer</b>

## TEST RESULTS

### 01 Purity Analysis — HPLC-UV

USP <621> · Reverse-Phase C18 · UV 220 nm

PURITY RESULT

**99.0%**

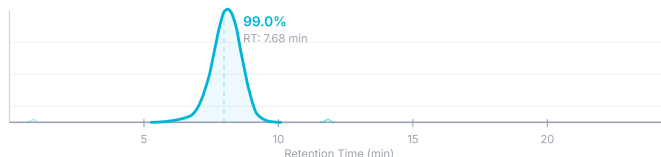
SPECIFICATION

**≥98.0%**

RESULT

✓ **PASS**

CHROMATOGRAM (ILLUSTRATIVE — REVERSE PHASE C18, 220 NM)



DETECTION  $\lambda$

**220 nm**

RETENTION TIME

**7.68 min**

PEAK AREA

—

COLUMN

**C18 150×4.6mm 5 $\mu$ m**

### 02 Identity Confirmation — LC-MS/MS

ESI positive mode · Triple Quadrupole · USP <621>

MOLECULAR FORMULA

**C<sub>37</sub>H<sub>51</sub>N<sub>9</sub>O<sub>10</sub>**

✓ **CONFIRMED**

EXPECTED MW

**767.97 Da**

OBSERVED [M+H]<sup>+</sup>

**[M+H]<sup>+</sup> 768.38**

MASS ERROR

**1.3**

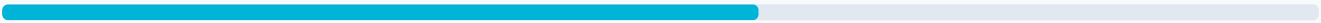
### 03 Heavy Metals Screening — ICP-MS

ICP-MS, USP <232>/<233>

ELEMENT	SYMBOL	RESULT (PPB)	LIMIT (PPB)	STATUS
Lead	Pb	<0.5	500	✓ PASS
Arsenic	As	<0.5	1,500	✓ PASS
Cadmium	Cd	<0.2	500	✓ PASS
Mercury	Hg	<0.1	300	✓ PASS

### 04 Water Content — Karl Fischer Titration

Karl Fischer Titration, USP <921>

WATER CONTENT <b>4.6%</b>	SPECIFICATION <b>≤ 8.0%</b>	RESULT <b>✓ PASS</b>
Content vs. Limit (4.6% / 8.0%) 		

#### METHODOLOGY & QUALITY REFERENCES

All analytical procedures are performed in compliance with the current United States Pharmacopeia (USP), International Council for Harmonisation (ICH) guidelines, and applicable FDA Analytical Procedures guidance documents. Reference standards are NIST-traceable or USP-grade. Instruments are calibrated per manufacturer protocols and internal SOPs with documented calibration records. All results are issued as final and cannot be retroactively altered after certificate issuance.

USP <61>/<62>

USP <71>

USP <85>

USP <232>/<233>

USP <621>

USP <731>

USP <788>

ICH Q3C

ICH Q2(R2)

#### CHAIN OF CUSTODY

Sample Received

Analysis Start

Analysis Complete

Certificate Issued

—

June 4, 2026

June 4, 2026

June 7, 2026

Authorized Laboratory Signatory

Lab Director / Quality Manager

Date of Release

June 7, 2026

This certificate is issued by Aegis Peptide Analytics LLC. Results are specific to the sample tested and may not be representative of other lots or batches. This COA is for research purposes only and is not intended for use in diagnostic or therapeutic decisions.

Verify at:  
[aegispeptideanalytics.com/verify](https://aegispeptideanalytics.com/verify)  
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