

# CERTIFICATE OF ANALYSIS

Public sample verification record. Live customer batches require QA confirmation before file release.

PRODUCT NAME

**Semax**

MOLECULAR FORMULA

**C37H51N9O10S**

MOLECULAR WEIGHT

**813.9 g/mol**

CAS NO.

**80714-61-0**

COA NO.

**COA-PS-SEMAX-2606-045**

BATCH NO.

**PS-SEMAX-2606-045**

SPECIFICATION

**10 mg / vial**

MFG. DATE

**17 June 2026**

RETEST DATE

**17 June 2028**

STORAGE

**-20 °C, protect from light**

TEST ITEM	ACCEPTANCE CRITERIA	RESULT	STATUS
Appearance	White to off-white lyophilized powder	White to off-white lyophilized powder	Pass
Identification (LC-MS)	Consistent with reference standard or controlled identity file	Conforms	Pass
Peptide Purity (RP-HPLC)	NLT 98.0%	98.64%	Pass
Related Impurities (HPLC)	Each impurity NMT 1.0%; total NMT 2.0%	Each <= 0.64%; total 1.41%	Pass
Mass Spectrum (ESI-MS)	813.9 Da theoretical	813.9 Da	Pass
Peptide Content (Assay)	NLT 90.0% on dry basis	97.2%	Pass
Water Content (Karl Fischer)	NMT 7.0%	1.8%	Pass
Residual Solvents (GC)	ACN NMT 410 ppm; DCM NMT 600 ppm; MTBE NMT 5000 ppm	ACN 241 ppm; others N.D.	Pass
Heavy Metals (as Pb)	NMT 10 ppm	< 2 ppm	Pass
Bacterial Endotoxins	NMT 1 EU/mg	< 0.05 EU/mg	Pass
Microbial Limits	TAMC NMT 100 cfu/g; TYMC NMT 100 cfu/g	TAMC < 20; TYMC < 20 cfu/g	Pass
Fill Content	Catalog fill +/-10%	10 mg / vial	Pass

**QA APPROVAL**

Testing completed 17 June 2026

*Kevin Fang*

Quality Assurance Reviewer - Kevin Fang · 19 June 2026

**DOCUMENT CONTROL**

RELEASE DECISION

**Approved for sample verification**

DOCUMENT STATUS

**Demo record - QA confirmation required**

Sample notice: This public record demonstrates the PeptideSource verification format. Current customer lots require QA confirmation, order context, or controlled access before full release files are displayed.