AMINO+ RESEARCH PEPTIDES

CERTIFICATE OF ANALYSIS

Product Name	Semax	**Strength**	5mg / vial
Batch Number	SMX-05-052420	**CAS Number**	2023788-19-2
Molecular Formula	$C_{225}H_{348}N_{48}O_{68}$	**Molecular Weight**	4813.45 g/mol
Manufacture Date	May 22, 2026	**Report Date**	May 22, 2026
Appearance	White lyophilized powder	**Storage Conditions**	Store refrigerated (2–8°C) Protect from light
Peptide Sequence	Y-Aib-EGXGTFTSDYSI(N-Me)-LDKIAQKAFVQWLIAGGPSSGAPPPS-NH_2 (Semax)		
Packaging	5mg per sterile vial	**Intended Use**	Research purposes only

TESTS	SPECIFICATIONS	RESULTS
Appearance	White lyophilized powder	Conforms
Identification (MS)	Conforms to reference standard	Conforms
Purity (HPLC)	≥98.0%	98.5%
Peptide Content (HPLC)	≥80.0%	91.7%
Acetate Content (HPLC)	≤12.0%	6.8%
Water Content (Karl Fischer)	≤10.0%	3.7%
Mass Balance	95.0% – 105.0%	98.6%
Endotoxin (LAL)	≤1.0 EU/mg	<0.2 EU/mg
Residual Solvents (GC)	Meets ICH Q3C guidelines	Conforms
Sterility	Sterile	Conforms

ANALYTICAL METHODS

HPLC, LC-MS, Karl Fischer, GC, UV, LAL conducted in accordance with in-house validated methods.

NOTES

This product is intended for laboratory research use only.

Prepared By:
Quality Control Department

Approved By:
Quality Assurance Department

QUALITY ASSURANCE QA APPROVED

FOR RESEARCH PURPOSES ONLY

Not for diagnostic or therapeutic use.