

Certificate of Analysis (COA)

Product Name: Semax

Lot No.: 3132120

Sequence: Met–Glu–His–Phe–Pro–Gly–Pro

Modifications: C-terminal amidation

Long-term Storage Conditions: -20°C. Protect from light and moisture. After reconstitution, store at 2–8°C and avoid repeated freeze–thaw cycles. Use under aseptic handling conditions.

Report Date: 20 July 2026

Test Results

Test Item	Specification	Result
Appearance	White to off-white lyophilized powder	Conforms
Molecular Weight (MS)	751.9 ±1.0 Da	752.9 Da
Purity (HPLC)	>98%	99.5%
Retention Time (HPLC)	±0.2 min of standard	Conforms
Assay	95.0–105.0%	99.2%
Related Substances (HPLC)	Individual impurity ≤0.50%; Total impurities ≤2.00%	Conforms
Solubility	Freely soluble in water	Conforms
Acetic Acid Content	≤ 5000 ppm	820 ppm
TFA Content	≤ 50 ppm	8 ppm
DCM Content	≤ 50 ppm	N.D.
DMF Content	≤ 100 ppm	N.D.
E. Coli	Absent	N.D.
Salmonella	Absent	N.D.

Heavy Metals	≤10 ppm	<1 ppm
Total Aerobic Count	≤100 CFU/g	<10 CFU/g
Yeast & Molds Count	≤10 CFU/g	<10 CFU/g
Endotoxins	≤0.5 EU/mg	<0.05EU/mg