



Company Name Purpose Peptides LLC
 Task Number _____

Name	Semax
Sample	Purpose Semax 11mg
Batch	XA11/2025-0801
Order Date	7/29/2025
Received	8/8/2025
Conducted	8/11/2025
CAS#	80714-61-0
Formula	C37H51N9O10
M.W.	813.92 g/mol
Test Type	LC-MS, Mass Spec, HPLC
Appearance	Odorless, white powder



Purity & Impurity Profile			
Test	Specification	Result	
Total Purity (HPLC)	≥ 98.00%	99.16%	Pass
Single Impurity	≤ 1.00%	0.68%	Pass
Total Impurities	≤ 2.00%	1.02%	Pass
Water Content	≤ 6.00%	3.31%	Pass
TFA Content	≤ 0.50%	0.43%	Pass
Identity Testing			
Test	Specification	Result	
Peptide Sequence Confirmation (LCMS)	Pass / No Pass	C37H51N9O10	Pass
Purity Profile (HPLC)	≥ 98.00%	99.41%	Pass
Retention Time (HPLC)	Within Reference Range	Complies	Pass
Additional Testing			
Test	Specification	Result	
Mass Analysis	Within ±1.0 Da	Verified	Pass
Endotoxin	< 0.25 EU/mg	Complies	Pass
Bioburden	< 100 CFU/g	Not Detected	Pass
Heavy Metals	≤ 10 ppm	Complies	Pass
Comments			

Purpose Peptides LLC

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Date: 8/11/2025

Signature:

