

CERTIFICATE OF ANALYSIS

1. PRODUCT INFORMATION

Product Name	Semax Peptide
CAS Number	NA
Molecular Formula	NA
Form	Lyophilized powder
Molecular Weight	NA
Batch / Lot Number	PE20260708
Manufacturing Date	05/18/2026
Report Date	06/09/2026
Retest Date	05/17/2028
Quantity	10 mg
Storage Conditions	Light-proof, sealed, stored at -20°C ±5°C

2. GENERAL PROPERTIES

No.	Test Parameter	Specification	Result	Status
2.1	Appearance	White to off-white powder	Conforms	Pass
2.2	Solubility	Freely soluble in water	Conforms	Pass
2.3	Water Content	NMT 7.0%	3.4%	Pass
2.4	pH	4.0 - 7.0	5.7	Pass
2.5	Acetic Acid	NMT 0.5%	N.D.	Pass
2.6	TFA (Trifluoroacetic Acid)	NMT 0.5%	N.D.	Pass
2.7	Sodium Ion	NMT 5.0%	1.3%	Pass

3. RESIDUAL SOLVENTS

No.	Test Parameter	Specification	Result	Status
3.1	Methanol (Methyl Alcohol)	NMT 0.3%	0.004%	Pass
3.2	Methylene Dichloride	NMT 0.06%	N.D.	Pass
3.3	Acetonitrile	NMT 0.041%	0.009%	Pass
3.4	N,N-Dimethylformamide (DMF)	NMT 0.088%	N.D.	Pass

4. RELATED SUBSTANCES (HPLC)

No.	Test Parameter	Specification	Result	Status
4.1	Maximum Single Impurity	NMT 0.5%	0.14%	Pass
4.2	Total Impurities	NMT 2.0%	0.72%	Pass

4.3	Purity (by HPLC)	NLT 98.0%	99.10%	Pass
4.4	High-Molecular Polymer (Individual)	NMT 0.3%	N.D.	Pass
4.5	High-Molecular Polymer (Total)	NMT 0.8%	N.D.	Pass

5. BIOLOGICAL TESTING

No.	Test Parameter	Specification	Result	Status
5.1	Bacterial Endotoxins	NMT 5 EU/mg	Conforms	Pass
5.2	Total Aerobic Bacteria	NMT 100 cfu/g	NMT 3 cfu/g	Pass
5.3	Total Molds and Yeasts	NMT 100 cfu/g	NMT 1 cfu/g	Pass

6. ASSAY

No.	Test Parameter	Specification	Result	Status
6.1	Assay	95.0% - 105.0%	99.10%	Pass
6.2	Peptide Content	NLT 80.0%	86.20%	Pass

7. CONCLUSION

The product tested complies with the specifications.

--- End of Certificate ---