

CERTIFICATE OF ANALYSIS

Summary Report - Analytical Verification

PRODUCT NAME	TESAMORELIN	BATCH NUMBER	26030604-03
CAS NUMBER	218949-48-5	TESTING TYPE	Full In-House Analytical Verification
PRODUCT NO.	800052	PURPOSE	Research Use Only (RUO)
MOLECULAR FORMULA	C ₂₂₁ H ₃₆₆ N ₇₂ O ₆₇ S	QUANTITY	407.5g
MFG. DATE	Mar. 06th, 2026	RETEST DATE	Mar. 05th, 2028

SEQUENCE:

trans-3-hexenoyl-Tyr-Ala-Asp-Ala-Ile-Phe-Thr-Asn-Ser-Tyr-Arg-Lys-Val-Leu-Gly-Gln-Leu-Ser-Ala-Arg-Lys-Leu-Leu-Gln-Asp-Ile-Met-Ser-Arg-Gln-Gln-Gly-Glu-Ser-Asn-Gln-Glu-Arg-Gly-Ala-Arg-Ala-Arg-Leu-NH2
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1. IDENTITY VERIFICATION

TEST PARAMETER	SPECIFICATION / CRITERIA	RESULT
Molecular Weight Confirmation	Theoretical: 5135.9 ± 1.0 Da	Measured: 5136.6 Da (CONFORMS)
HPLC Retention Time	Main peak retention time matches reference standard	CONFORMS

2. PURITY & IMPURITY PROFILE

TEST PARAMETER	SPECIFICATION	RESULT
HPLC Purity (Main Peak)	≥ 98.0%	99.4%

3. PHYSICOCHEMICAL PROPERTIES

PARAMETER	SPECIFICATION	RESULT
Appearance	White or off-white powder	White powder
Solubility	Soluble in H ₂ O	Conforms
Water Content (KF)	≤ 8.0%	3.4%
Acetic Acid	≤ 15.0%	11.0%

4. AMINO ACID CONTENT

AMINO ACID	SPECIFICATION	RESULT	AMINO ACID	SPECIFICATION	RESULT
Gly	2.7 - 3.3	3.0	Asx	3.6 - 4.4	3.9
Ala	4.5 - 5.5	5.1	Glx	6.3 - 7.7	6.9
Ser	3.6 - 4.4	4.0	Lys	1.8 - 2.2	2.0
Val	0.9 - 1.1	1.0	Met	0.9 - 1.1	1.0

AMINO ACID	SPECIFICATION	RESULT
Thr	0.9 - 1.1	1.0
Ile	1.8 - 2.2	2.0
Leu	4.5 - 5.5	5.2

AMINO ACID	SPECIFICATION	RESULT
Phe	0.9 - 1.1	1.0
Arg	5.4 - 6.6	5.9
Tyr	1.8 - 2.2	2.0

5. RESIDUAL SOLVENTS

SOLVENT	SPECIFICATION	RESULT
TFA (Trifluoroacetic Acid)	≤ 0.5%	Not Detected (ND)
DMF (Dimethylformamide)	≤ 880 ppm	Not Detected (ND)
MTBE (Methyl tert-butyl ether)	≤ 5000 ppm	Not Detected (ND)
Dichloromethane	≤ 600 ppm	Not Detected (ND)
Acetonitrile	≤ 410 ppm	27 ppm

6. ASSAY & PEPTIDE CONTENT

TEST PARAMETER	SPECIFICATION	RESULT
Peptide Content (%)	≥ 80.0%	84.9%

7. BIOLOGICAL SAFETY

TEST PARAMETER	SPECIFICATION	STATUS
Bacterial Endotoxins	≤ 10 EU/mg	CONFORMS
Microbial Limits	TAMC ≤ 100 cfu/g, TYMC ≤ 100 cfu/g	CONFORMS

8. FINAL CONCLUSION

OVERALL RESULT: CONFORMS TO SPECIFICATION

This batch of product complies with Enterprise Standards. It is only supplied as a chemical product for R&D use.

9. STORAGE CONDITIONS

Store in an airtight container, protected from light. **Short Term:** 2–8°C. **Long Term:** below -10°C.

End of Report — This Certificate of Analysis is provided for informational and analytical verification purposes only.