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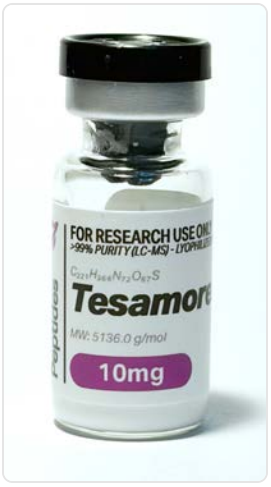
CERTIFICATE OF ANALYSIS

Purity, Identity & NPC

COA ID: BJVBDUYE

PRODUCT NAME	CLIENT	LOT ID
Tesamorelin	Cosmic Peptides	26116
MOLECULAR FORMULA	**MOLECULAR WEIGHT**	**DISSOLUTION**
$C_{221}H_{366}N_{72}O_{67}S$	5135.90 g/mol	100% Ultrapure H_2O

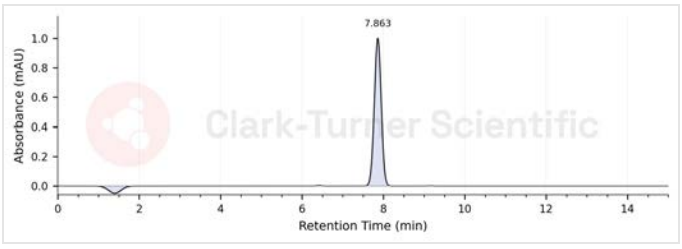
TEST RESULTS



03/02/2026 BJVBDUYE

TEST	SPECIFICATION	RESULT	STATUS
Appearance	White to off-white powder	Lyophilized White Powder	✓ CONFORMS
Purity (HPLC)	≥ 98.0%	99.74%	✓ CONFORMS
Net Peptide Content	Report result	10.22 mg	✓ CONFORMS
Identity (MS)	734.89 ± 0.5 Da $[M+7H]^{7+}$	734.89 Da	✓ CONFORMS
Total Impurities	≤ 2.0%	0.26%	✓ CONFORMS

HPLC CHROMATOGRAM



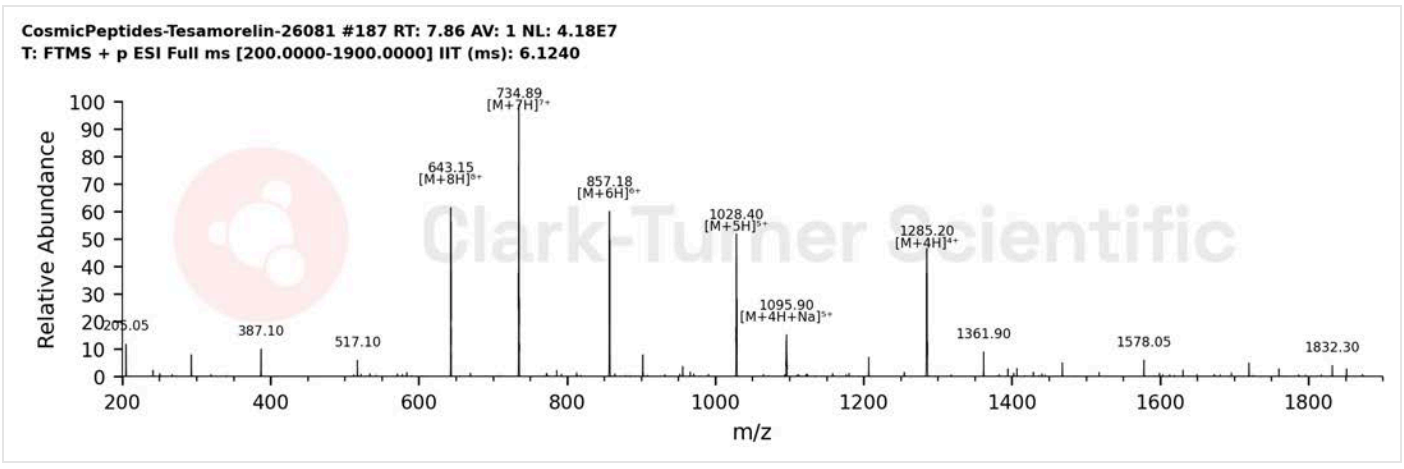
PEAK #	RT (MIN)	AREA %
1	7.863	99.74

TEST PARAMETERS

Pump A	0.1% trifluoroacetic acid in 100% water
Pump B	0.1% trifluoroacetic acid in 100% acetonitrile
Total Flow	1.0 mL/min
Wavelength	220 nm
Analytical Column	Agilent ZORBAX StableBond 5µm C18 (4.6 × 250 mm)
Dissolution Method	100% H_2O
Injection Volume	30 µL
Analysis Date	March 2, 2026

Reversed-phase HPLC analysis of Tesamorelin was performed using a C18 stationary phase with a TFA-modified water/acetonitrile gradient. The peptide eluted as a single well-resolved peak at 7.863 minutes, accounting for 99.74% of total integrated peak area. The retention time is consistent with the moderately hydrophobic character of the 44-residue sequence. Minor impurities totaling 0.26% were detected as baseline-resolved peaks eluting both before and after the main component, likely representing deletion sequences and oxidation products typical of synthetic peptide preparations. The chromatographic profile demonstrates excellent peak symmetry with no evidence of aggregation or degradation, indicating a highly pure and stable sample suitable for research applications.

MASS SPECTROMETRY (ESI-MS)



EXPECTED $[M+7H]^{7+}$: 734.89 Da OBSERVED $[M+7H]^{7+}$: 734.89 Da MASS ACCURACY: < 0.01 Da

Dissolution Method	3% HAc + 25% ACN + 72% H_2O
Injection Volume	1 µL
Interface	ESI
Nebulizing Gas Flow	1.50 L/min
CDL Temp	250°C

CDL Volt	0 V
Block Temp	200°C
Prerod Bias	+4.5 kV
Detector	-0.2 kV
B.conc	30% H_2O / 70% MeOH

Electrospray ionization of Tesamorelin produced a characteristic multiply-charged ion envelope consistent with a 44-residue peptide of molecular weight 5135.90 Da. The base peak at m/z 734.89 corresponds to $[M+7H]^{7+}$, with additional charge states observed at m/z 643.15 $[M+8H]^{8+}$, 857.18 $[M+6H]^{6+}$, 1028.40 $[M+5H]^{5+}$, and 1285.20 $[M+4H]^{4+}$. A minor sodium adduct $[M+4H+Na]^{5+}$ was detected at m/z 1095.90, which is typical for peptides analyzed in positive-ion mode. The isotope distribution within each charge state envelope is consistent with the theoretical pattern for $C_{221}H_{366}N_{72}O_{67}S$, and mass accuracy across all charge states is within instrument specifications. The absence of significant fragmentation ions or truncated sequences confirms sample integrity and supports the identity assignment.

This Certificate of Analysis certifies that the above-referenced sample was tested according to Clark-Turner Scientific standard operating procedures. All results reported herein are accurate and complete to the best of our knowledge. This document is intended solely for the use of the addressee and may contain confidential information.

Michael Weber 03/02/2026

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