

CERTIFICATE OF ANALYSIS

SAMPLE SUMMARY



Client:	Peptra Health	Appearance:	White lyophilized powder
Product:	Tesamorelin 20mg	Sample Type:	Lyophilized powder (vial)
Accession #:	AMT-2026-1691	Manufacturer:	Peptra Health (client supplied)
Search Code:	L6WB3B5G5P	CAS No.:	218949-48-5
Identity:	Confirmed	Mol. Weight:	5135.86 Da
Purity:	99.63%	Test Type:	Quantitative Analysis (HPLC) + Identity Confirmation (LC-MS)
Received:	2026-08-10		
Reported:	2026-08-13		
Lot:	PH-462815		
Net Content:	20.16 mg		

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

ANALYTICAL RESULTS

Test	Label Claim	Result	Purity	Outcome
Identity (LC-MS)	Tesamorelin	Confirmed	—	Pass
Purity (HPLC-UV)	20 mg	20.16 mg	99.63%	Pass

SAFETY & CONTAMINANT TESTING

Endotoxin testing performed using the *Limulus Amebocyte Lysate (LAL)* assay in accordance with USP <85> under validated laboratory conditions.

Endotoxin Replicate 1:	Pass	Assay Sensitivity: ≤0.05 EU/mL
Endotoxin Replicate 2:	Pass	Assay Sensitivity: ≤0.05 EU/mL

Heavy metals screening performed by ICP-MS in accordance with USP <232>/<233>.

Element	Result	Limit	Outcome
Lead (Pb)	<0.05 ppm	≤0.5 ppm	Pass
Arsenic (As)	<0.10 ppm	≤1.5 ppm	Pass
Cadmium (Cd)	<0.05 ppm	≤0.5 ppm	Pass

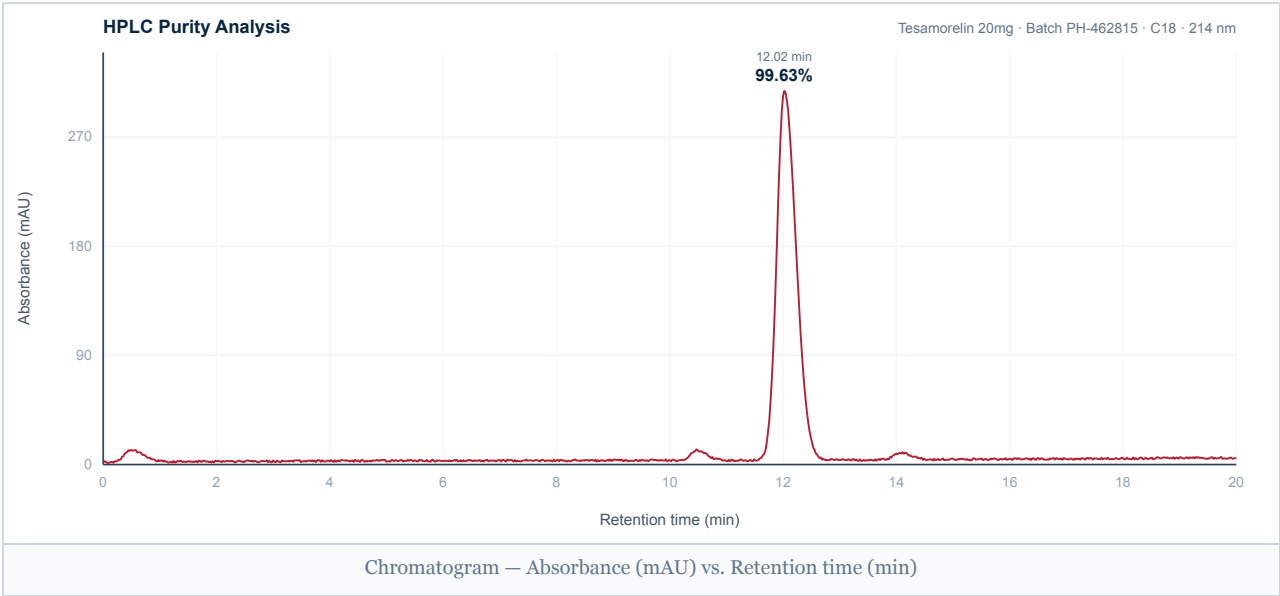
Element	Result	Limit	Outcome
Mercury (Hg)	<0.02 ppm	≤0.3 ppm	Pass

Sterility / microbial screening by PCR-based bioburden assay (USP <71> compatible).

Sterility / Microbial Screening: No microbial growth detected

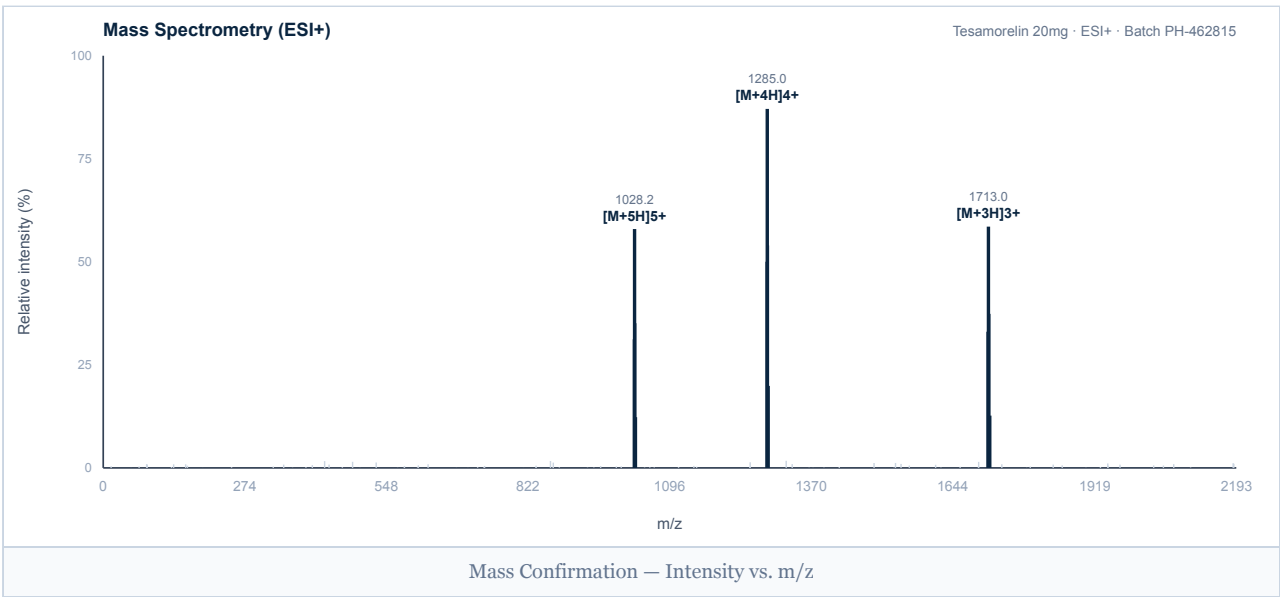
HPLC PURITY ANALYSIS

Column:	C18, 4.6 x 250 mm, 5 µm	Mobile Phase:	H2O / MeCN with 0.1% TFA
Gradient:	20-60% B over 20 min	Flow Rate:	1.0 mL/min
Detection:	UV at 214 nm	Injection:	10 µL
Retention:	12.02 min	Purity:	99.63%



MASS SPECTROMETRY — IDENTITY CONFIRMATION

Method:	LC-MS (ESI+)	Theoretical:	5135.86 Da
Observed:	5135.89 Da	Mass Error:	+6 ppm



CONCLUSION

Identity of Tesamorelin confirmed by LC-MS (deconvoluted mass 5135.89 Da matches the theoretical 5135.86 Da within tolerance). HPLC purity 99.63% (main peak 12.02 min). Measured content 20.16 mg is within $\pm 10\%$ of the 20 mg label claim. Endotoxin, heavy metals and sterility screening within acceptance limits. Sample passes.

Growth hormone-releasing factor analog (GRF 1-44). Minor peptide-related impurities (deletion/truncated sequences) detected at trace levels; each individual impurity below the 0.5% identification threshold (Ph. Eur. Substances for Pharmaceutical Use).



Dr. Sabine Ellsworth — Principal Chemist

Reported: 2026-08-13

The analysis reported here was conducted under standard laboratory conditions and is intended for informational purposes only, specific to the sample(s) provided. The materials tested are intended for research use only and are not approved for human or veterinary use, diagnostic, therapeutic, or clinical applications. Results should be interpreted by qualified professionals within the scope of the intended research. Accuracy may be influenced by sample integrity, handling, and other experimental variables. This certificate applies only to the sample(s) tested and may not be reproduced except in full. Authenticity can be confirmed using Accession # **AMT-2026-1691** and Search Code **L6WB3B5G5P**.

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