CERTIFICATE OF ANALYSIS

SAMPLE SUMMARY

Client:	Peptra Health
Product:	Tesamorelin 20mg
Accession #:	AMT-2026-1691
Search Code:	L6WB3B5G5P
Identity:	Confirmed
Purity:	99.63%
Received:	2026-08-10
Reported:	2026-08-13
Lot:	PH-462815
Net Content:	20.16 mg

Appearance:	White lyophilized powder
Sample Type:	Lyophilized powder (vial)
Manufacturer:	Peptra Health (client supplied)
CAS No.:	218949-48-5
Mol. Weight:	5135.86 Da
Test Type:	Quantitative Analysis (HPLC) + Identity Confirmation (LC-MS)

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-NH_2

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**

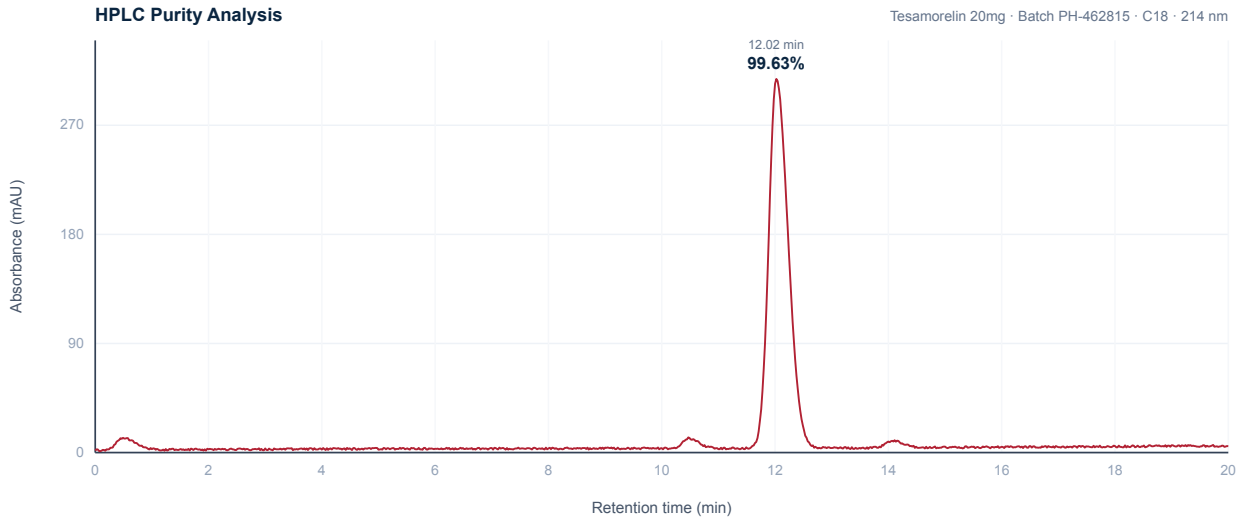
Element	Result	Limit	Outcome
Mercury (Hg)	<0.02 ppm	≤0.3 ppm	**Pass**

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

Sterility / Microbial Screening: **No microbial growth detected**

HPLC PURITY ANALYSIS

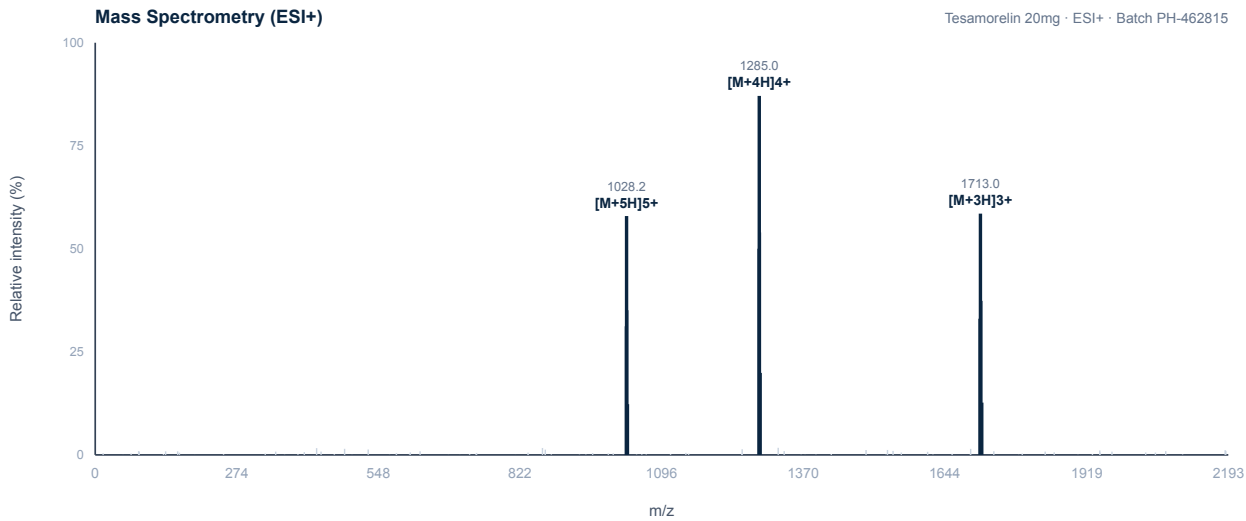
Column:	C18, 4.6 x 250 mm, 5 µm	**Mobile Phase:**	H2O / MeCN with 0.1% TFA
Gradient:	20-60% B over 20 min	**Flow Rate:**	1.0 mL/min
Detection:	UV at 214 nm	**Injection:**	10 µL
Retention:	12.02 min	**Purity:**	99.63%



Chromatogram — Absorbance (mAU) vs. Retention time (min)

MASS SPECTROMETRY — IDENTITY CONFIRMATION

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



Mass Confirmation — Intensity vs. m/z

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 ±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