

CERTIFICATE OF ANALYSIS

SAMPLE SUMMARY



Client:	Peptra Health	Appearance:	White lyophilized powder
Product:	Tirzepatide 15mg	Sample Type:	Lyophilized powder (vial)
Accession #:	AMT-2026-0417	Manufacturer:	Peptra Health (client supplied)
Search Code:	456YKBPC5G	CAS No.:	2023788-19-2
Identity:	Confirmed	Mol. Weight:	4813.53 Da
Purity:	99.63%	Test Type:	Quantitative Analysis (HPLC) + Identity Confirmation (LC-MS)
Received:	2026-08-04		
Reported:	2026-08-07		
Lot:	PH-517924		
Net Content:	15.12 mg		

Sequence: H-Tyr-Aib-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Tyr-Ser-Ile-Aib-Leu-Asp-Lys-Ile-Ala-Gln-Lys(γGlu-AEEA-AEEA-C20 diacid)-Ala-Phe-Val-Gln-Trp-Leu-Ile-Ala-Gly-Gly-Pro-Ser-Ser-Gly-Ala-Pro-Pro-Pro-Ser-NH₂

ANALYTICAL RESULTS

Test	Label Claim	Result	Purity	Outcome
Identity (LC-MS)	Tirzepatide	Confirmed	—	Pass
Purity (HPLC-UV)	15 mg	15.12 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

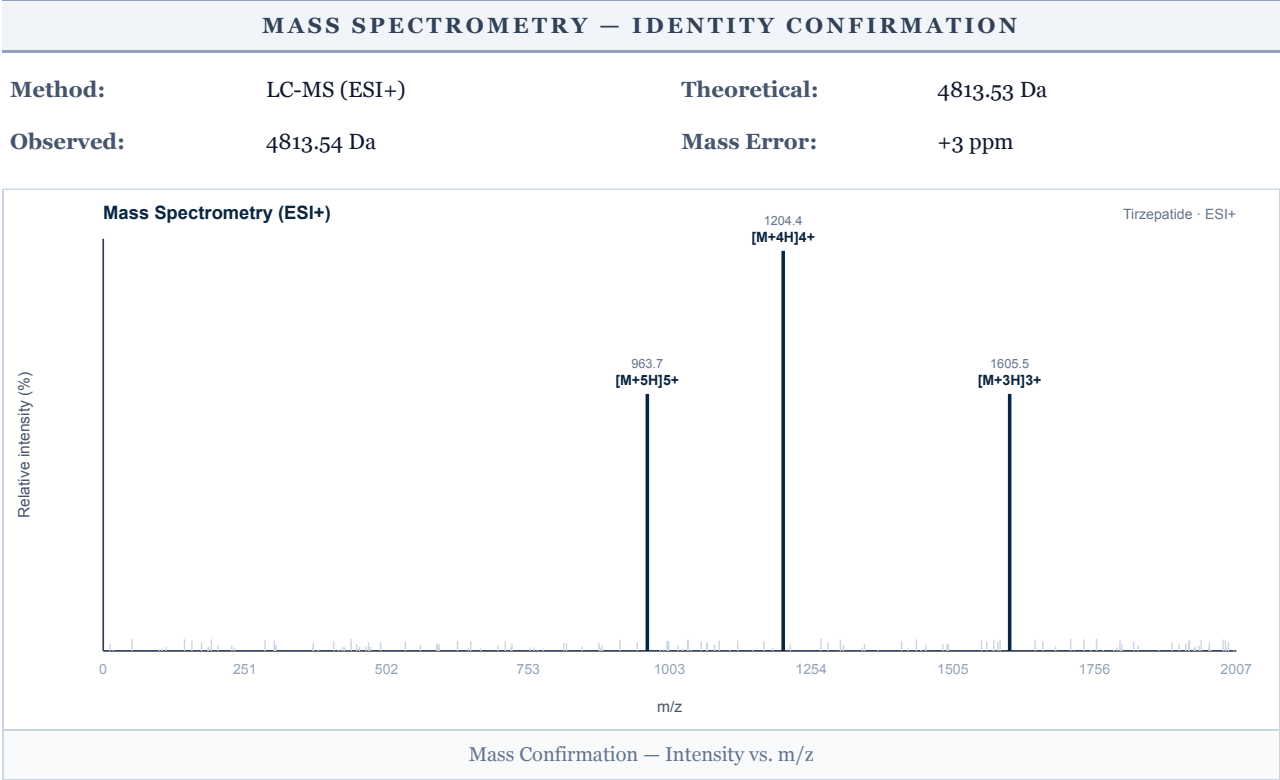
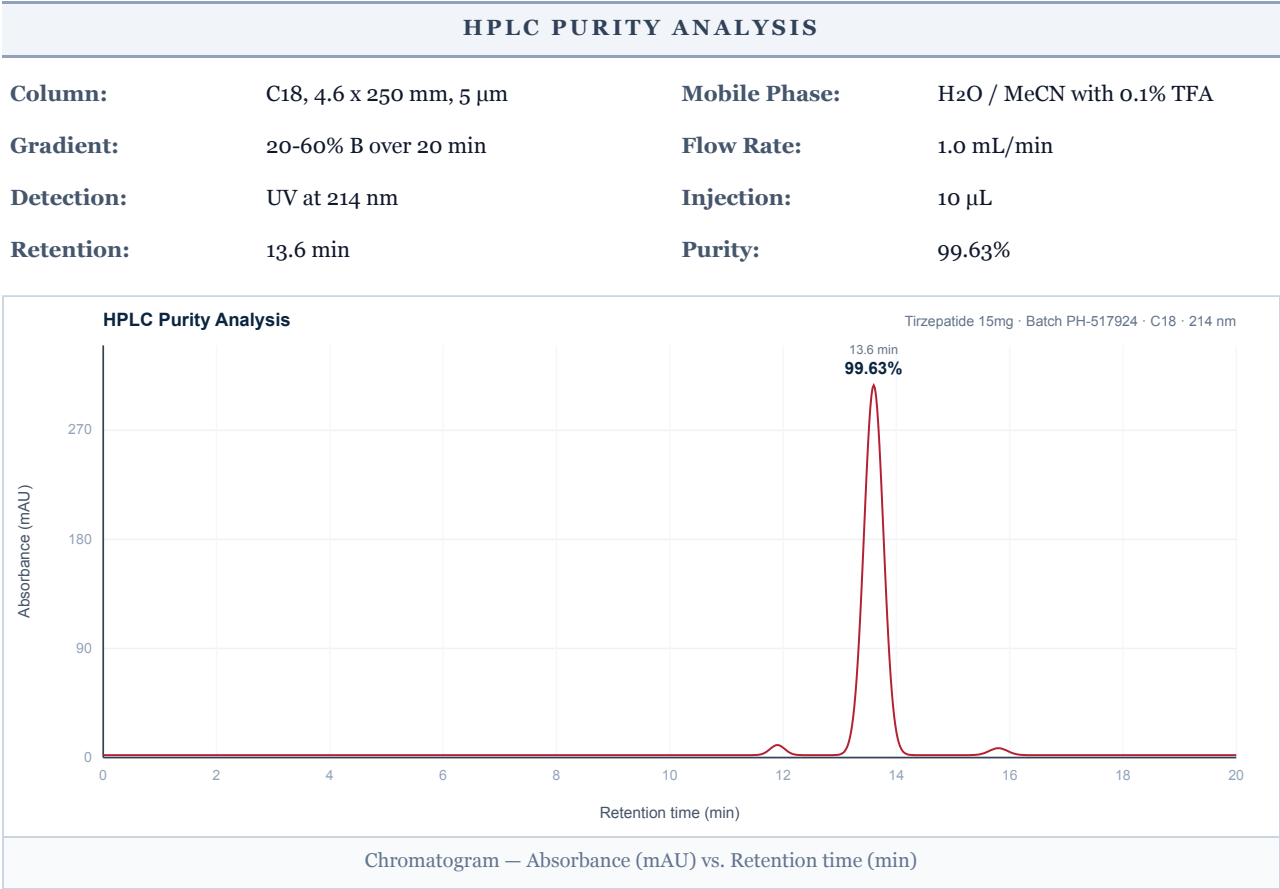
Heavy metals screening performed by ICP-MS in accordance with USP <232>/<233>.

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



CONCLUSION

Identity of Tirzepatide confirmed by LC-MS (deconvoluted mass 4813.54 Da matches the theoretical 4813.53 Da within tolerance). HPLC purity 99.63%. Measured content 15.12 mg is within $\pm 10\%$ of the 15 mg label claim. Endotoxin, heavy metals and sterility screening within acceptance limits. Sample passes.

Dual GIP / GLP-1 receptor agonist. 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. Camille Voss — Principal Chemist

Reported: 2026-08-07

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-2026-0417** and Search Code **456YKBPC5G**.

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