CERTIFICATE OF ANALYSIS

SAMPLE SUMMARY

Client:	Peptra Health
Product:	Tirzepatide 30mg
Accession #:	AMT-2026-1286
Search Code:	4SQBEJ3DPA
Identity:	Confirmed
Purity:	99.71%
Received:	2026-08-07
Reported:	2026-08-10
Lot:	PH-642381
Net Content:	29.88 mg

Appearance:	White lyophilized powder
Sample Type:	Lyophilized powder (vial)
Manufacturer:	Peptra Health (client supplied)
CAS No.:	2023788-19-2
Mol. Weight:	4813.53 Da
Test Type:	Quantitative Analysis (HPLC) + Identity Confirmation (LC-MS)

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-NH_2

ANALYTICAL RESULTS

Test	Label Claim	Result	Purity	Outcome
Identity (LC-MS)	Tirzepatide	Confirmed	—	**Pass**
Purity (HPLC-UV)	30 mg	29.88 mg	99.71%	**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**

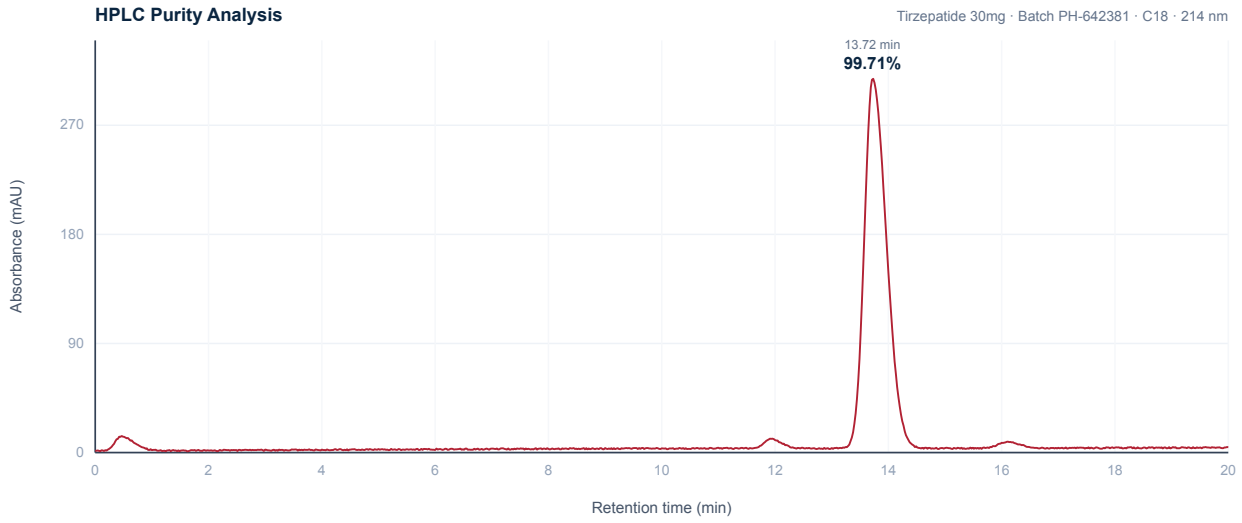
Element	Result	Limit	Outcome
Mercury (Hg)	<0.02 ppm	≤0.3 ppm	**Pass**

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

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

HPLC PURITY ANALYSIS

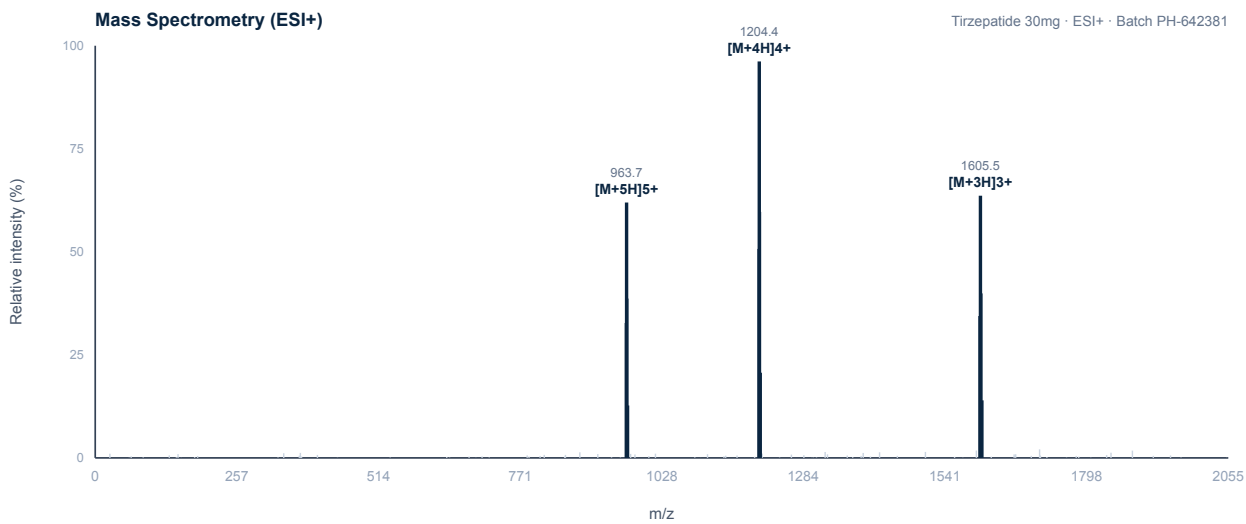
Column:	C18, 4.6 x 250 mm, 5 µm	**Mobile Phase:**	H2O / MeCN with 0.1% TFA
Gradient:	20-60% B over 20 min	**Flow Rate:**	1.0 mL/min
Detection:	UV at 214 nm	**Injection:**	10 µL
Retention:	13.72 min	**Purity:**	99.71%



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

MASS SPECTROMETRY — IDENTITY CONFIRMATION

Method:	LC-MS (ESI+)	**Theoretical:**	4813.53 Da
Observed:	4813.55 Da	**Mass Error:**	+4 ppm



Mass Confirmation — Intensity vs. m/z

CONCLUSION

Identity of Tirzepatide confirmed by LC-MS (deconvoluted mass 4813.55 Da matches the theoretical 4813.53 Da within tolerance). HPLC purity 99.71% (main peak 13.72 min). Measured content 29.88 mg is within ±10% of the 30 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. Adrian Whitlock — Principal Chemist

Reported: 2026-08-10