

# CERTIFICATE OF ANALYSIS

## SAMPLE SUMMARY



|                     |               |                      |                                                              |
|---------------------|---------------|----------------------|--------------------------------------------------------------|
| <b>Client:</b>      | Peptra Health | <b>Appearance:</b>   | White lyophilized powder                                     |
| <b>Product:</b>     | GLP-3 10mg    | <b>Sample Type:</b>  | Lyophilized powder (vial)                                    |
| <b>Accession #:</b> | AMT-2026-2051 | <b>Manufacturer:</b> | Peptra Health (client supplied)                              |
| <b>Search Code:</b> | BYFFNF2ZCD    | <b>CAS No.:</b>      | 2381089-83-2                                                 |
| <b>Identity:</b>    | Confirmed     | <b>Mol. Weight:</b>  | 4731.41 Da                                                   |
| <b>Purity:</b>      | 99.82%        | <b>Test Type:</b>    | Quantitative Analysis (HPLC) + Identity Confirmation (LC-MS) |
| <b>Received:</b>    | 2026-08-13    |                      |                                                              |
| <b>Reported:</b>    | 2026-08-16    |                      |                                                              |
| <b>Lot:</b>         | PH-284736     |                      |                                                              |
| <b>Net Content:</b> | 10.02 mg      |                      |                                                              |

**Sequence:** H-Tyr-Aib-Gln-Gly-Thr-Phe-Thr-Ser-Asp-Tyr-Ser-Ile-(αMe-Leu)-Leu-Asp-Lys-Lys(γGlu-AEEA-C20 diacid)-Ala-Gln-Aib-Ala-Phe-Ile-Glu-Tyr-Leu-Leu-Glu-Gly-Gly-Pro-Ser-Ser-Gly-Ala-Pro-Pro-Pro-Ser-NH<sub>2</sub>

## ANALYTICAL RESULTS

| Test                    | Label Claim | Result    | Purity | Outcome     |
|-------------------------|-------------|-----------|--------|-------------|
| <b>Identity (LC-MS)</b> | GLP-3       | Confirmed | —      | <b>Pass</b> |
| <b>Purity (HPLC-UV)</b> | 10 mg       | 10.02 mg  | 99.82% | <b>Pass</b> |

## SAFETY & CONTAMINANT TESTING

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

|                               |             |                                |
|-------------------------------|-------------|--------------------------------|
| <b>Endotoxin Replicate 1:</b> | <b>Pass</b> | Assay Sensitivity: ≤0.05 EU/mL |
| <b>Endotoxin Replicate 2:</b> | <b>Pass</b> | Assay Sensitivity: ≤0.05 EU/mL |

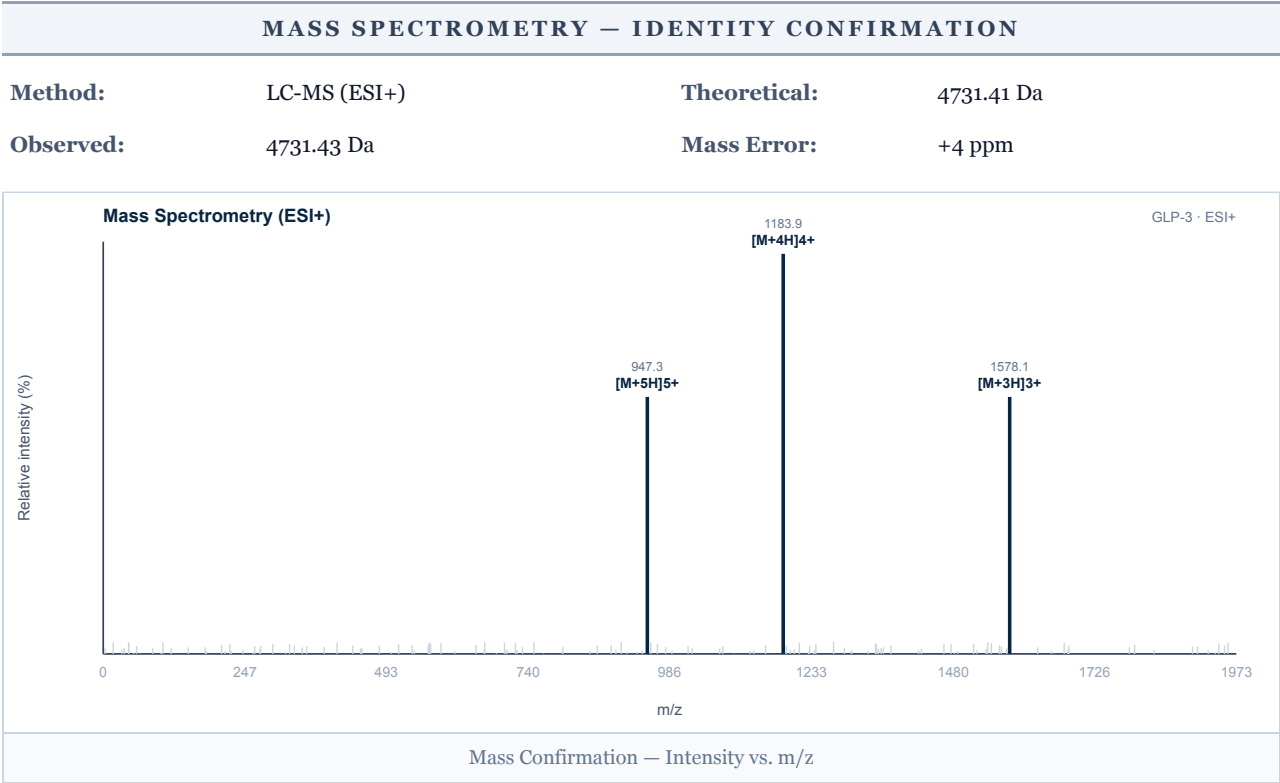
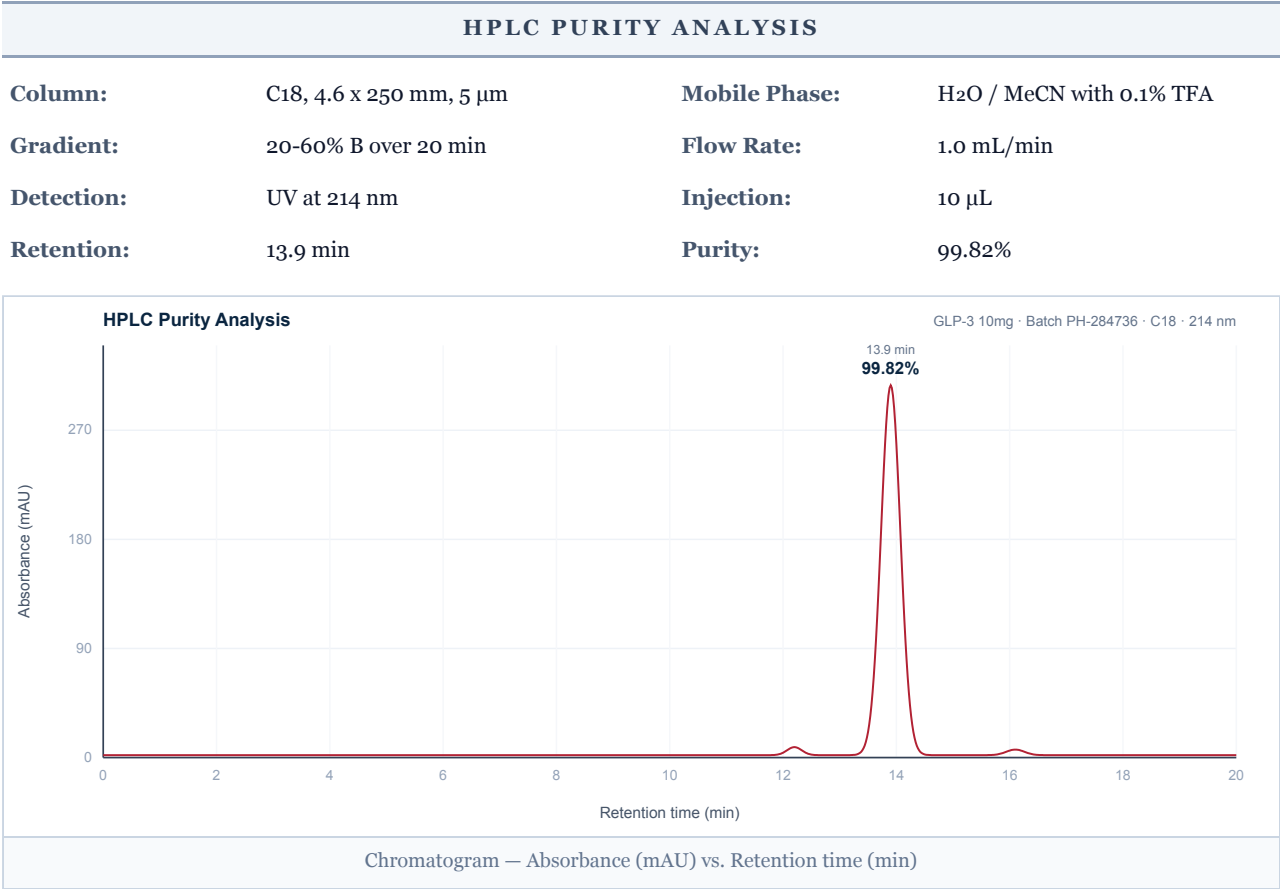
Heavy metals screening performed by ICP-MS in accordance with USP <232>/<233>.

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

| 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 GLP-3 confirmed by LC-MS (deconvoluted mass 4731.43 Da matches the theoretical 4731.41 Da within tolerance). HPLC purity 99.82%. Measured content 10.02 mg is within  $\pm 10\%$  of the 10 mg label claim. Endotoxin, heavy metals and sterility screening within acceptance limits. Sample passes.

*Triple GIP / GLP-1 / glucagon receptor agonist (retatrutide analog). 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: 2026-08-16

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-2026-2051** and Search Code **BYYFNF2ZCD**.

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