



PRODUCT IDENTIFICATION

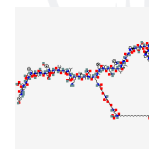
HPLC-UV coupled with LC-MS, standard laboratory conditions

Compound Name	TZ-2	CAS No.	2023788-19-2
Molecular Formula	C225H348N48O68	Molecular Weight	4813 g/mol
Appearance	White Lyophilized Powder	Compound Concentration	30mg

SAMPLE IDENTIFICATION

Client-supplied, verified at intake

Container Size	3ml Glass Vial	Cap Color	Blue
Crimp / Seal Color	Silver		
Product Company	Renovita Research LLC		



MOLECULAR STRUCTURE



CLIENT SAMPLE PHOTO

ANALYTICAL RESULTS

Test	Specification	Result	Status
Purity (HPLC)	>= 90.0%	99.94%	PASS
Mass Identification (LC-MS)	Conforms to declared compound	TZ-2	PASS
Net Compound Content	90.0–110.0% of 30 mg	32.08 mg	PASS
Water Content (Karl Fischer)	<= 10.0%	4.57%	PASS
Acetate Content (HPLC)	< 12.0%	3.97%	PASS
Heavy Metals (ICP-MS)	< 10 ppm	Not Detected	PASS
Bacterial Endotoxins (LAL)	< 5 EU/mg	Not Detected	PASS
Sterility (RMM)	USP <71>	Not Requested	-
Mass Balance	95.0 – 105.0%	Conforms	PASS

ANALYST NOTES

Sample received labeled as RR-2TZ, 30 mg, white lyophilized powder.

Identity: LC-MS analysis of the principal peak (RT 15.11 min) produced a multiply charged ion series at m/z 803.3 (6+), 963.7 (5+), 1204.4 (4+) and 1605.5 (3+), deconvoluting to an intact mass of 4813.5 Da, consistent with tirzepatide (CAS 2023788-19-2, theoretical 4813.5 Da). Identity result: Conforms.

Purity: 99.94% by HPLC-UV, principal peak relative to total integrated peak area. No related-substance peaks above the reporting threshold.

Net content: Tirzepatide quantified at 32.08 mg per vial against the compound calibration curve, 106.9% of label claim. Net content result: Conforms (within 90.0 to 110.0% of label).

Conclusion: Sample conforms to label for identity, purity and net content.

INSTRUMENT DATA

Traces behind the results above

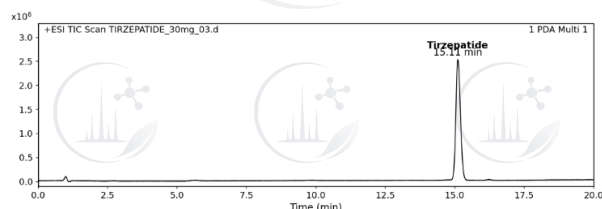


FIGURE 1 — TOTAL ION CHROMATOGRAM (LC-MS)

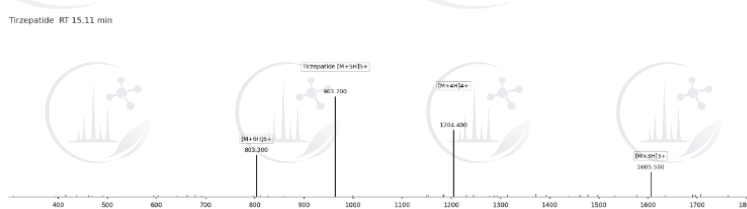


FIGURE 2 — MASS SPECTRUM, PRINCIPAL PEAK (LC-MS)

Lee Adams

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Lab Director

COA: PMS-7942225760

The analysis reported herein was conducted using HPLC-UV and LC-MS/MS under standard laboratory conditions. This analysis is intended for informational purposes only and is specific to the sample(s) provided. The compounds 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. The accuracy and reliability of the test may be influenced by sample integrity, handling, and other experimental variables. The sample image included in this Certificate of Analysis was provided by the client during intake. For research use only.



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