

CERTIFICATE OF ANALYSIS

COA #: **SD20260829_004_TZ30**

SAMPLE INFORMATION

Client	Zentra Brands Limited	Accession #	SD20260829_004
Compound	TRZ2	Date Received	08/28/2026
Molecular Formula	C225H348N48O68	Date Reported	09/01/2026
Appearance	White lyophilized powder	Labeled Quantity	30 mg
Sample Form	Lyophilized Vial	Lot / Batch #	ZC0044
Storage	Room Temp	CAS Number	2023788-19-2
Cap Color	Red		



All Chemical Analysis Performed by LC-MS/MS

ANALYTICAL RESULTS

Test / Analysis	Method	Specification	Result	Status
Identity (Mass Confirmation)	LC-MS/MS	Matches reference mass	Tirzepatide	Pass
Purity	LC-MS/MS	≥ 95.0%	99.769 %	Pass
Net Peptide Content	LC-MS/MS	Report value	32.58mg	Pass
Observed Molecular Mass	LC-MS	Within ± 1.0 Da	1204.9 [M+4H]	Pass
Theoretical Molecular Mass	Reference	—	4813.45	Pass
Related Substances / Impurities	LC-MS/MS	Report value	Not Detected	Pass
Residual Solvents	LC-MS/MS	Report value	Not Detected	Pass

John Humes, MS. **John Humes, MS.**
Analyzed by · Laboratory Analyst · 09/01/2026

Chetan Soni, PhD. **Chetan Soni, PhD.**
Approved by · Laboratory Director · 09/01/2026

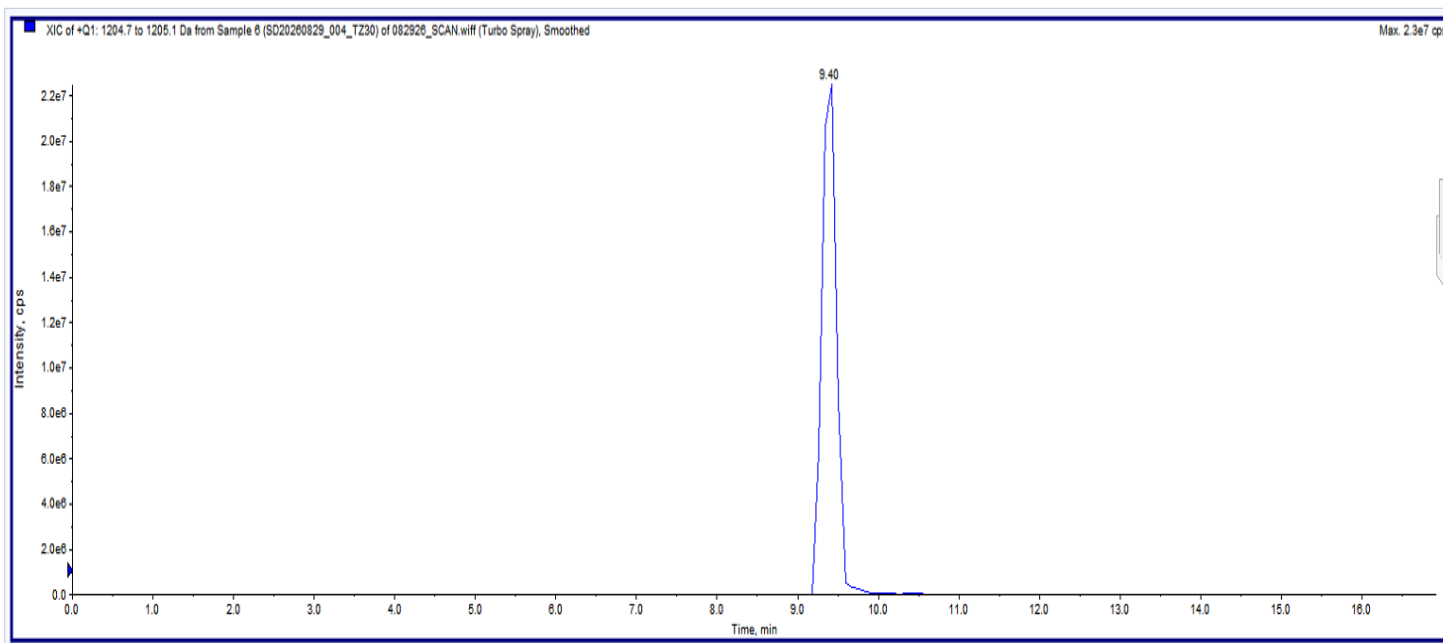
IMPORTANT NOTICE - FOR RESEARCH USE ONLY

This Certificate of Analysis is provided for informational and research purposes only. The sample(s) tested are intended solely for in vitro research, laboratory experimentation, and analytical reference use - not for human or animal consumption, medical diagnosis, therapeutic application, or any clinical use. Results apply only to the specific sample(s) submitted and tested. Unauthorized reproduction of this document is prohibited without written approval from Sonic Laboratories.

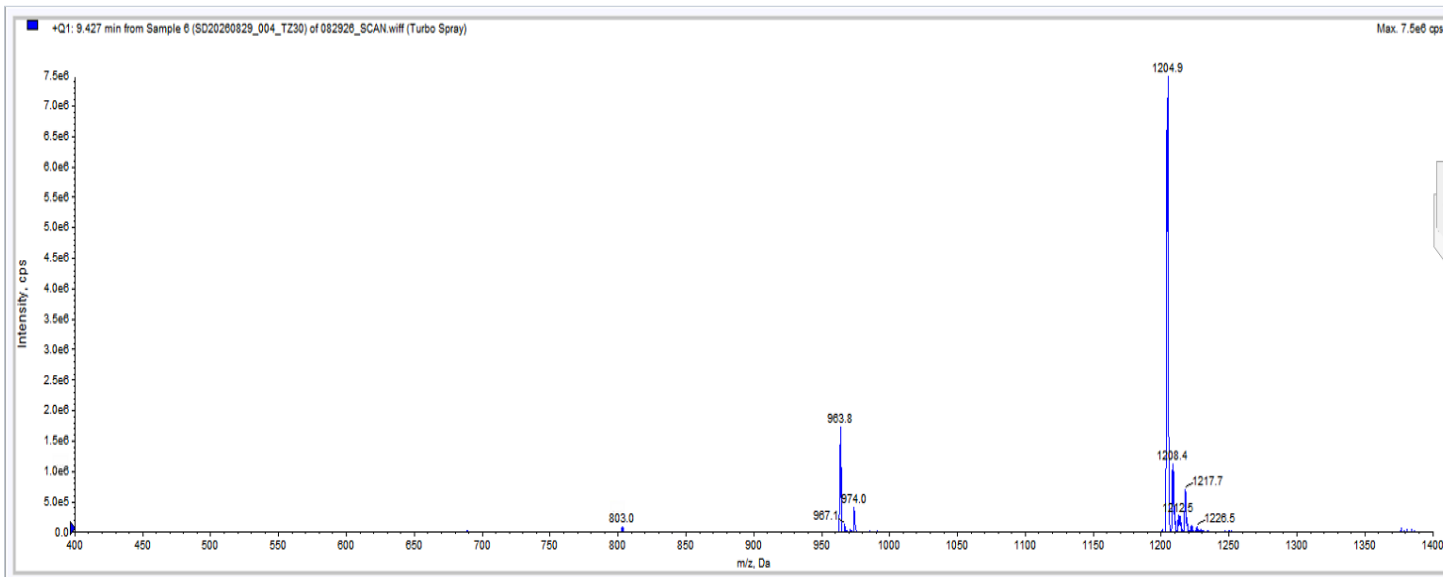
ANALYTICAL DATA

COA #: **SD20260829_004_TZ30**

CHROMATOGRAM



MASS SPECTRUM (LC-MS)



John Humes, MS.

John Humes, MS.

Analyzed by · Laboratory Analyst · 09/01/2026

Chetan Soni, PhD.

Chetan Soni, PhD.

Approved by · Laboratory Director · 09/01/2026

IMPORTANT NOTICE - FOR RESEARCH USE ONLY

This Certificate of Analysis is provided for informational and research purposes only. The sample(s) tested are intended solely for in vitro research, laboratory experimentation, and analytical reference use - not for human or animal consumption, medical diagnosis, therapeutic application, or any clinical use. Results apply only to the specific sample(s) submitted and tested. Unauthorized reproduction of this document is prohibited without written approval from Sonic Laboratories.

ANALYTICAL INTERPRETATION

Chromatogram

Retention Time Match

Mass Spectrum (LC-MS)

Analyte: Tirzepatide

Sample ID: SD20200829_004_TZ30

Method (Identity): LC-MS, positive-mode Q1 full scan, TurboSpray ionization

Retention time: 9.427min

The Q1 full-scan spectrum at 9.427min shows a dominant ion at $m/z \approx 1204.9$, consistent with the $[M+4H]^4$ ion of Tirzepatide (MW $\approx$ 4.8kDa). Additional peaks at $m/z \approx 963.8$ and 803.0 correspond to the $[M+5H]$ and $[M+6H]$ charge states, respectively, while closely spaced peaks at $m/z \approx 1208.4$, 1217.7 , and 1226.5 represent adduct and isotopic variants of the 4+ ion. The observed charge-state distribution and retention time are consistent with the expected LC-MS profile for Tirzepatide.

Interpretation: Identity by LC-MS Q1 full scan — Confirmed (Tirzepatide detected; Q1 profile consistent with reference standard).

John Humes, MS.

John Humes, MS.

Analyzed by · Laboratory Analyst · 09/01/2026

Chetan Soni, PhD.

Chetan Soni, PhD.

Approved by · Laboratory Director · 09/01/2026

IMPORTANT NOTICE - FOR RESEARCH USE ONLY

This Certificate of Analysis is provided for informational and research purposes only. The sample(s) tested are intended solely for in vitro research, laboratory experimentation, and analytical reference use - not for human or animal consumption, medical diagnosis, therapeutic application, or any clinical use. Results apply only to the specific sample(s) submitted and tested. Unauthorized reproduction of this document is prohibited without written approval from Sonic Laboratories.