Analytical Testing Laboratory
7271 Engle Rd Unit 201A, Middleburg Heights, OH 44130
sonic-laboratories.com

CERTIFICATE OF ANALYSIS

COA #: **SD20260804_018_TZ10**

SAMPLE INFORMATION

Client	Radix Peptides	**Accession #**	SD20260804_018
Compound	Tirzepatide	**Date Received**	08/04/2026
Molecular Formula	C225H348N48O68	**Date Reported**	08/07/2026
Counter Ion / Salt	NA	**Appearance**	White lyophilized powder
Labeled Quantity	10 mg	**Sample Form**	Vial
Lot / Batch #	TZ7593	**Storage**	Room Temp
CAS Number	2023788-19-2	**Crimp Color**	Orange

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%	99.77%	**Pass**
Net Peptide Content	LC-MS/MS	Report value	10.64 mg	**Pass**
Observed Molecular Mass	LC-MS	Within ± 1.0 Da	1204 [M+4H]	**Pass**
Theoretical Molecular Mass	Reference	—	4813.45 Da	**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 · 08/07/2026

Chetan Soni, PhD. **Chetan Soni, PhD.**
Approved by · Laboratory Director · 08/07/2026

IMPORTANT NOTICE - FOR RESEARCH USE ONLY

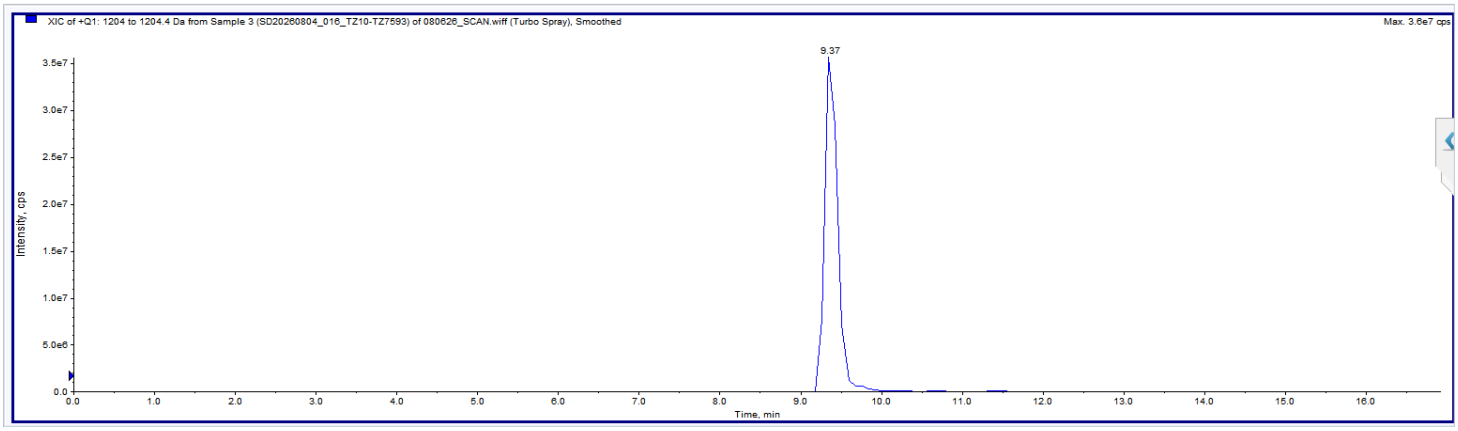
This Certificate of Analysis is provided for informational and research purposes only. The sample(s) tested are intended solely for in vitro research, laboratory experimentation, and analytical reference use - not for human or animal consumption, medical diagnosis, therapeutic application, or any clinical 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 Testing Laboratory
7271 Engle Rd Unit 201A, Middleburg Heights, OH 44130
sonic-laboratories.com

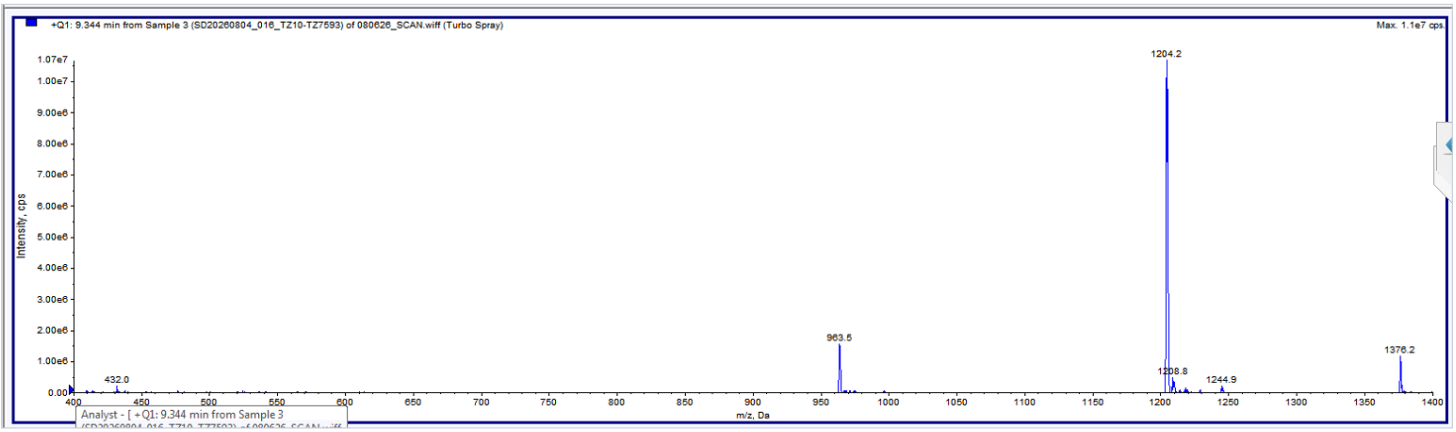
ANALYTICAL DATA

COA #: **SD20260804_018_TZ10**

CHROMATOGRAM



MASS SPECTRUM (LC-MS)



John Humes, MS.
Analyzed by · Laboratory Analyst · 08/07/2026

Chetan Soni, PhD.
Approved by · Laboratory Director · 08/07/2026

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 Testing Laboratory
7271 Engle Rd Unit 201A, Middleburg Heights, OH 44130
sonic-laboratories.com

ANALYTICAL INTERPRETATION

Chromatogram

Retention Time Match

Mass Spectrum (LC-MS)

Identity (LC-MS, Q1 scan – Tirzepatide):

A positive-mode Q1 full scan acquired at 9.34min from the Tirzepatide sample shows a dominant precursor ion envelope centered around m/z1204.2, with supporting peaks at 983.5, 1208.8, 1244.9, and 1376.2. These ions correspond to the expected multiply charged isotopic and adduct distribution of Tirzepatide under validated LC-MS conditions. The observed mass profile and charge-state pattern match the theoretical precursor ion distribution within tolerance limits, confirming analyte identity in this sample.

John Humes, MS. **John Humes, MS.**
Analyzed by · Laboratory Analyst · 08/07/2026

Chetan Soni, PhD. **Chetan Soni, PhD.**
Approved by · Laboratory Director · 08/07/2026