

## CERTIFICATE OF ANALYSIS

COA #: SD20260818\_001\_TZ20

### SAMPLE INFORMATION

|                   |                          |                  |                |
|-------------------|--------------------------|------------------|----------------|
| Client            | MTCCompounds             | Accession #      | SD20260818_001 |
| Compound          | Tirzepatide              | Date Received    | 08/18/2026     |
| Molecular Formula | C225H348N48O68           | Date Reported    | 08/20/2026     |
| Appearance        | White lyophilized powder | Labeled Quantity | 20mg           |
| Sample Form       | Lyophilized Vial         | Lot / Batch #    | N/A            |
| Storage           | Room Temp                | CAS Number       | 2023788-19-2   |
| Cap Color         | Clear                    |                  |                |



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%                | 99.815%       | Pass   |
| Net Peptide Content             | LC-MS/MS  | Report value           | 21.48 mg      | Pass   |
| Observed Molecular Mass         | LC-MS     | Within ± 1.0 Da        | 1203.8 [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 ·

*Chetan Soni, PhD.* **Chetan Soni, PhD.**  
Approved by · Laboratory Director ·

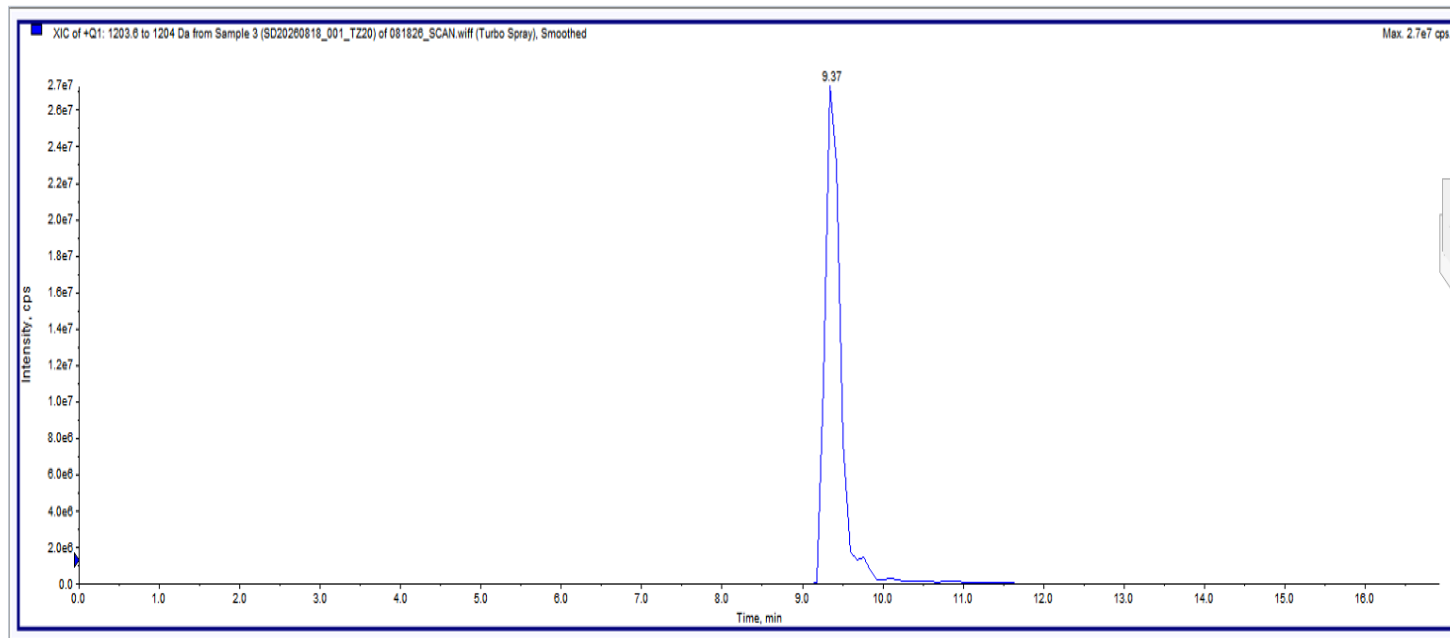
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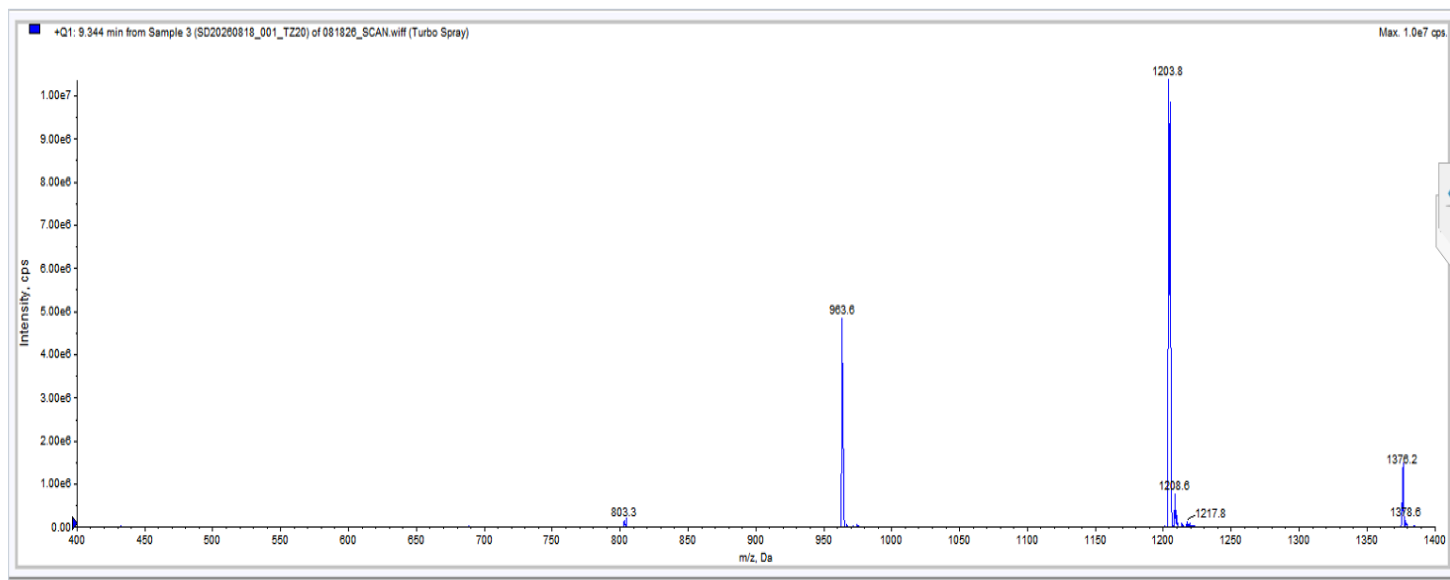
## ANALYTICAL DATA

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### CHROMATOGRAM



### MASS SPECTRUM (LC-MS)



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## ANALYTICAL INTERPRETATION

### Chromatogram

Retention Time Match

### Mass Spectrum (LC-MS)

LC MS Q1 scan collected at approximately 9.3 minutes shows a dominant precursor ion at  $m/z \approx 1204.3$ Da, with minor associated peaks between 1208–1222Da. The spectral profile indicates a single major species consistent with the expected molecular ion for the Tirzepatide compound.

No extraneous peaks or interfering ions were observed within the analytical window, and the chromatographic retention time aligns with the validated method parameters. The data confirm the presence of the target compound and support identity verification under standard LC MS conditions.

Instrument performance and method integrity were verified; results are consistent with a valid Tirzepatide standard.

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