MZ Biolabs
2102 N Country Club Rd
Tucson, AZ 85716
contact@mzbiolabs.com
www.mzbiolabs.com

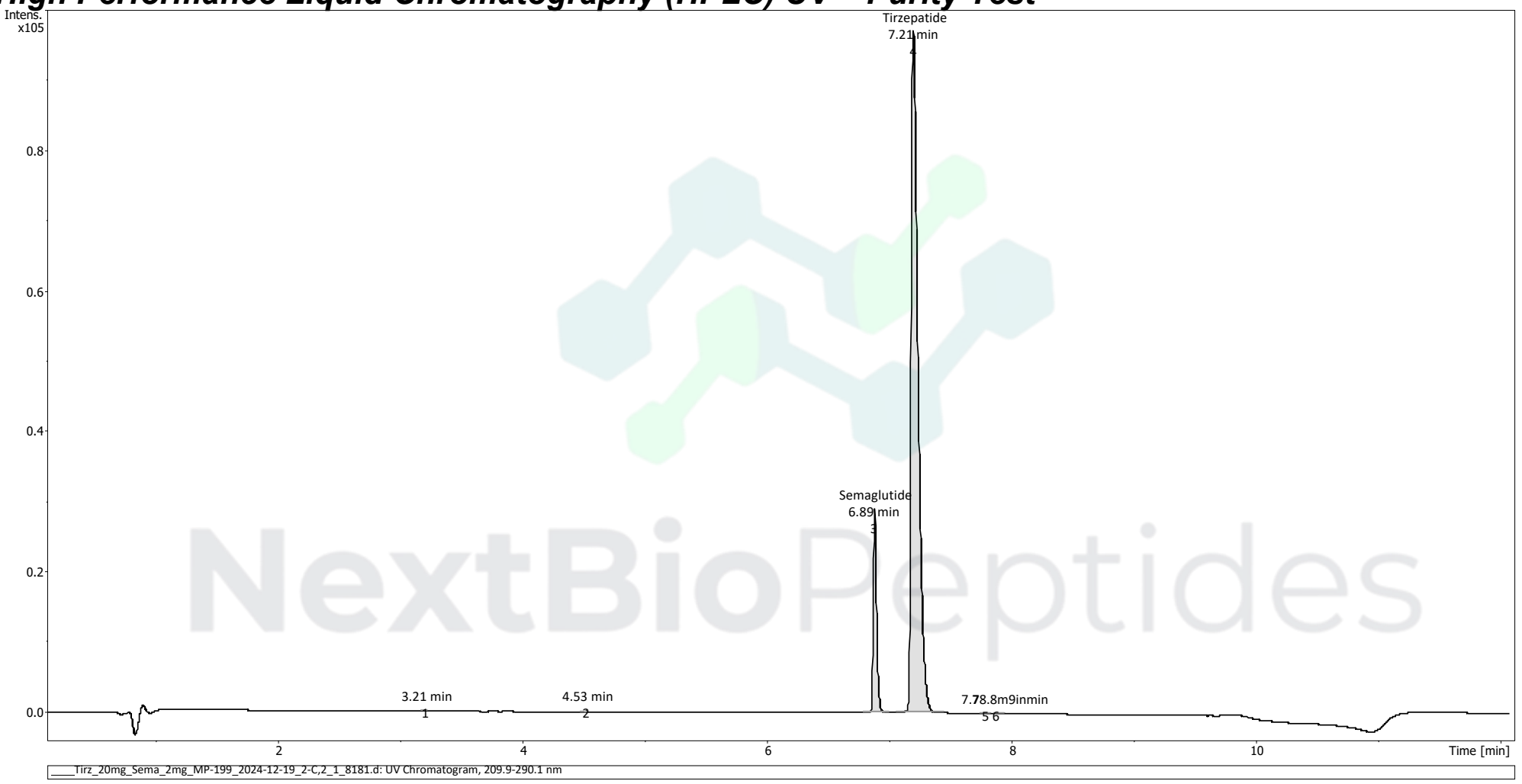
# Certificate of Analysis

## Semaglutide 2mg, Tirzepatide 20mg

***Compound*** ***: Semaglutide,Tirzepatide***
***Lot number*** ***: MP-199***
***Analysis date*** ***: 2025-01-03***
***Purity %*** ***: 99.95%***
***Semaglutide*** ***: 2.88 mg***
***Tirzepatide*** ***: 25.34 mg***
***Method*** ***: HPLC-UV-MS***

***Client :*** NextBioPeptides
nextbiopeptides.com

### *High Performance Liquid Chromatography (HPLC) UV – Purity Test*




PEAK LIST — Number of detected peaks: 6

| | Time (min) | Area | %Area | |
|---|---|---|---|---|
| 1 | 3.21 | 3.22E+01 | 0.01 | |
| 2 | 4.53 | 6.92E+01 | 0.02 | |
| 3 | ***6.89*** | ***5.53E+04*** | ***12.56*** | ***Semaglutide*** |
| 4 | ***7.21*** | ***3.85E+05*** | ***87.39*** | ***Tirzepatide*** |
| 5 | 7.78 | 5.73E+01 | 0.01 | |
| 6 | 7.89 | 5.71E+01 | 0.01 | |

***Combined purity :*** ***99.95***

Analysis Performed by
Ken Pendarvis, ChE
Analytical Chemist
MZ Biolabs
contact@mzbiolabs.com

Semaglutide measured quantity : 2.88 mg/vial
Tirzepatide measured quantity : 25.34 mg/vial

Note: Injectablepeptidesmaycontain salts and sugars toaid in solubility and act as pH buffers.
These are not normally detected using UV and are not considered impurities.

2025-01-13

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# Semaglutide 2 mg, Tirzepatide 20 mg

## *Mass Spectrometry(MS)–IdentityTest*

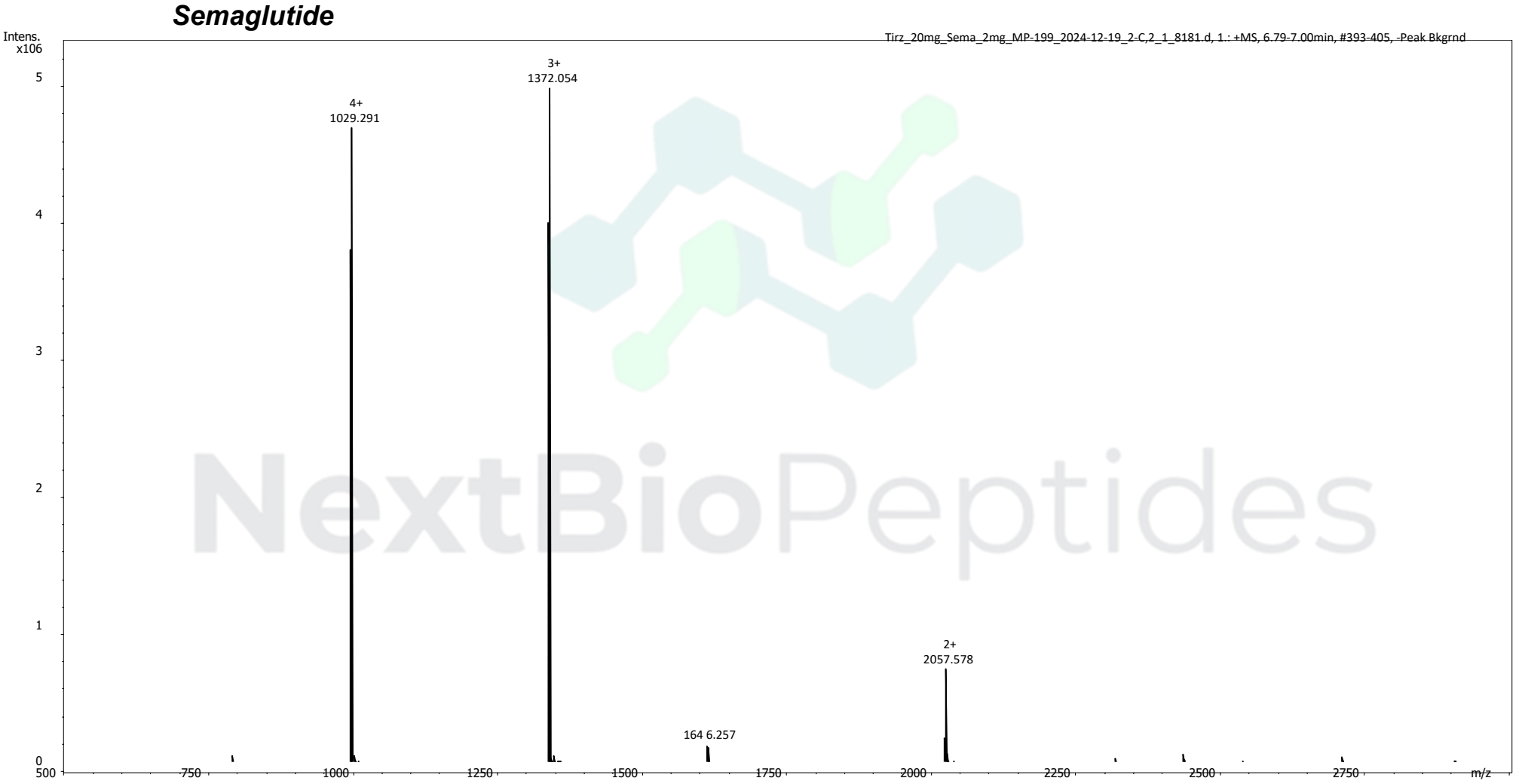
***Identity confirmed using HPLC-MS***

***Semaglutide*** https://pubchem.ncbi.nlm.nih.gov/compound/56843331
Molecular weight calculated using monoisotopic m/z values from mass spectrum
Expected monoisotopic mass : 4111.12 Da
Measured monoisotopic mass : 4111.15 Da
***Molecular weight confirmed***

Note : Monoisotopic m/z values are not easily seen in full spectrum view for larger molecules and peptides.
The dominant isotopic peak (base peak) shown in the spectrum below can be used to approximate the average molecular weight frequently reported by vendors and databases as a secondary means of confirmation.

Recorded MS spectrum

***Semaglutide***




Analysis Performed by
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Analytical Chemist
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# Semaglutide 2 mg, Tirzepatide 20 mg

## *Mass Spectrometry(MS)–IdentityTest*

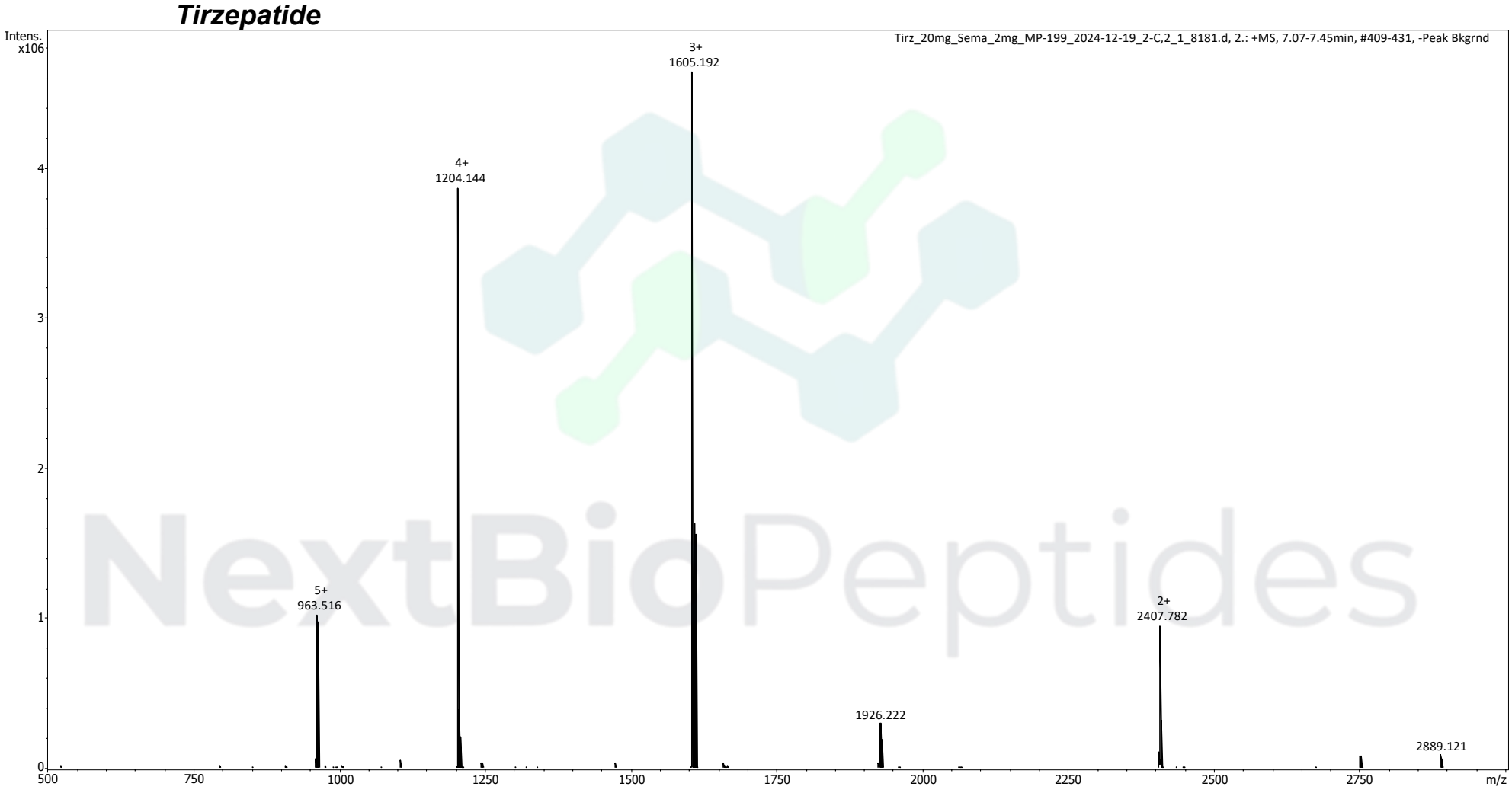
***Identity confirmed using HPLC-MS***

***Tirzepatide*** https://pubchem.ncbi.nlm.nih.gov/compound/163285897
Molecular weight calculated using monoisotopic m/z values from mass spectrum
Expected monoisotopic mass : 4810.52 Da
Measured monoisotopic mass : 4810.57 Da
***Molecular weight confirmed***

Note : Monoisotopic m/z values are not easily seen in full spectrum view for larger molecules and peptides.
The dominant isotopic peak (base peak) shown in the spectrum below can be used to approximate the average molecular weight frequently reported by vendors and databases as a secondary means of confirmation.

Recorded MS spectrum

***Tirzepatide***




Analysis Performed by
Ken Pendarvis, ChE
Analytical Chemist
MZ Biolabs
contact@mzbiolabs.com

2025-01-13