

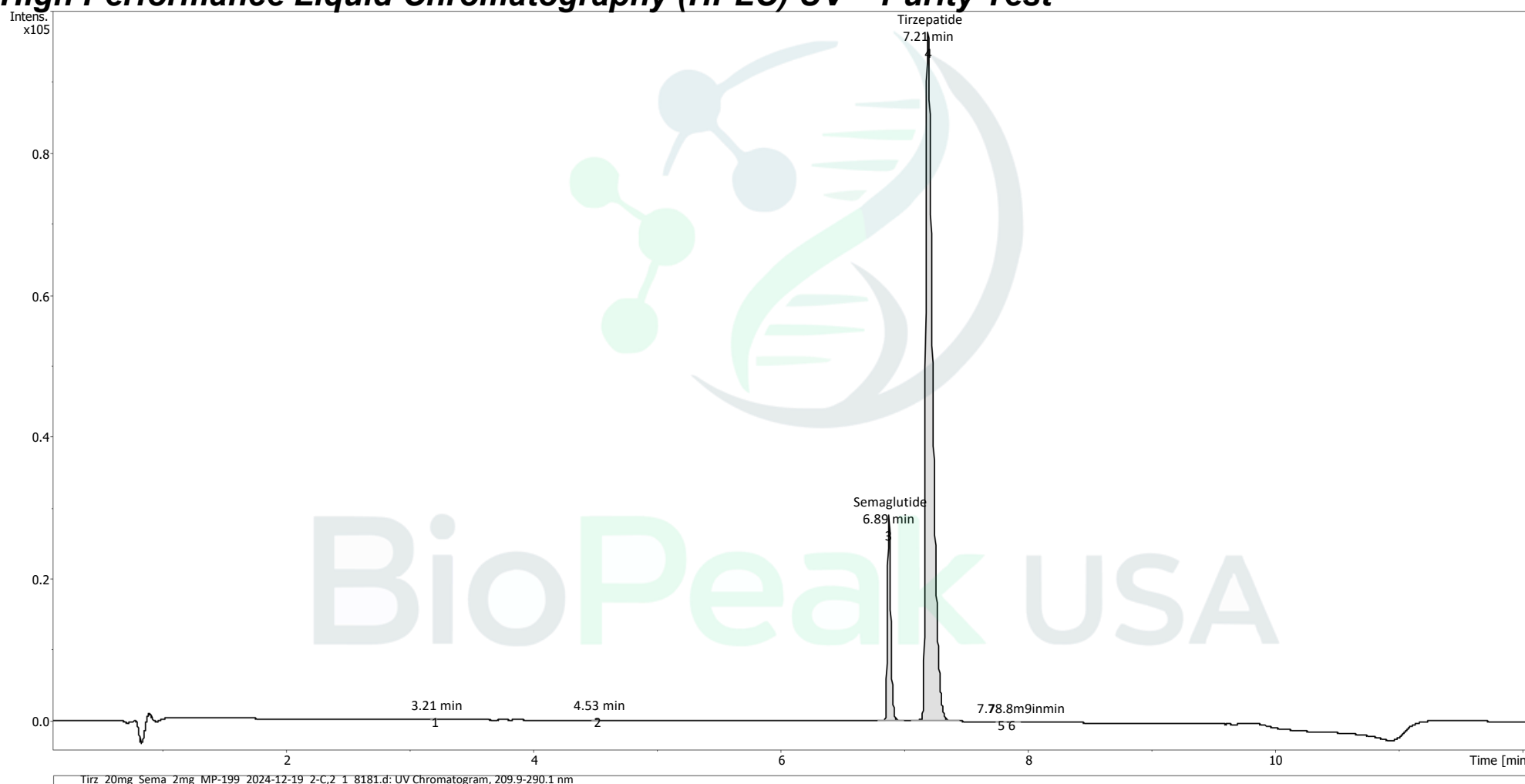
Certificate of Analysis

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 : Bio Peak USA
www.biopeakusa.com/

High Performance Liquid Chromatography (HPLC) UV – Purity Test



PEAK LIST

	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+02	12.56
4	7.21	3.85E+03	87.39
5	7.78	5.73E+01	0.01
6	7.89	5.71E+01	0.01

Semaglutide
Tirzepatide

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: Injectable peptides may contain salts and sugars to aid in solubility and act as pH buffers.

These are not normally detected using UV and are not considered impurities.



2025-01-13

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

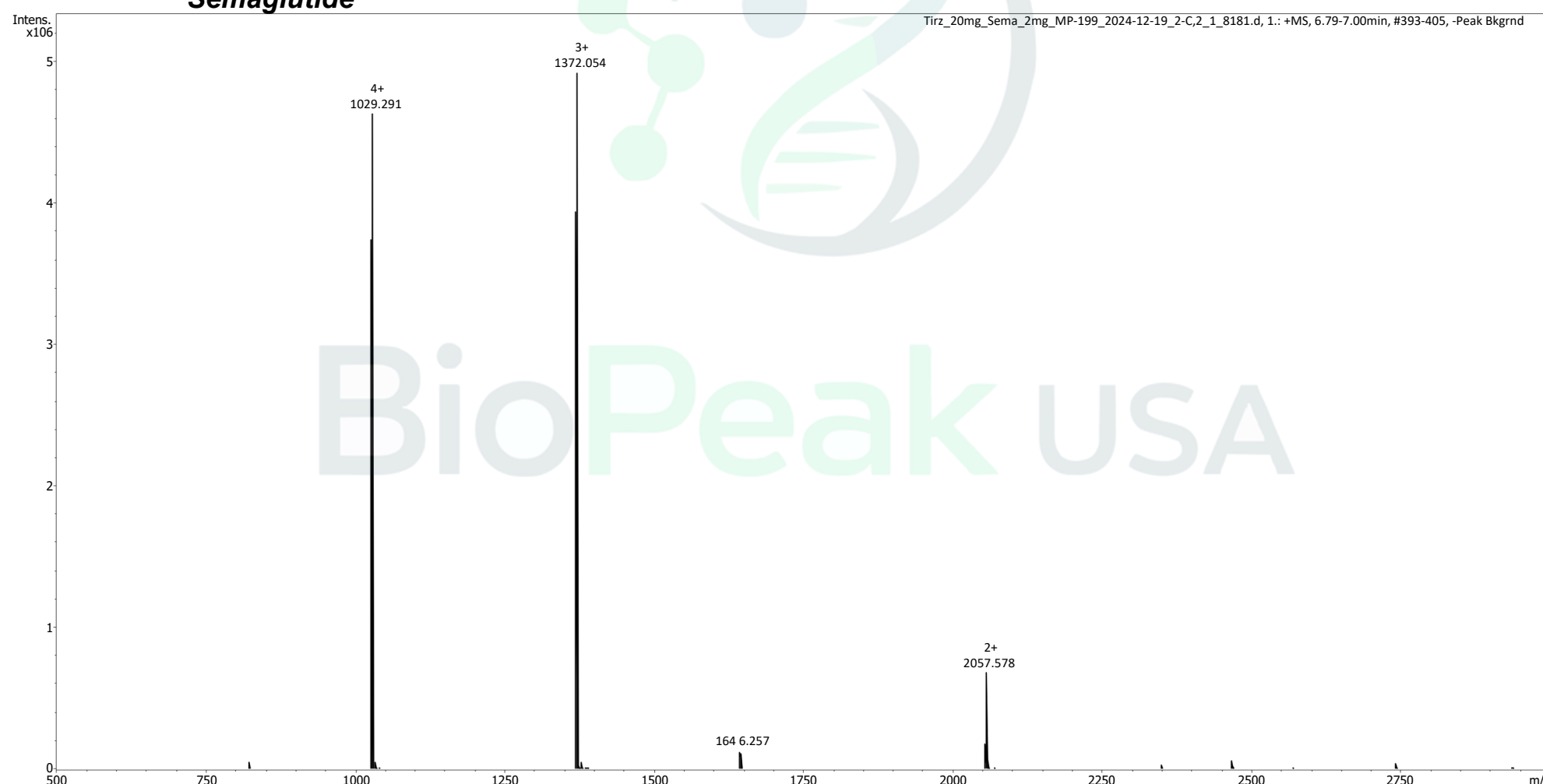
Measured monoisotopic mass : 4111.15 Da

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



2025-01-13

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

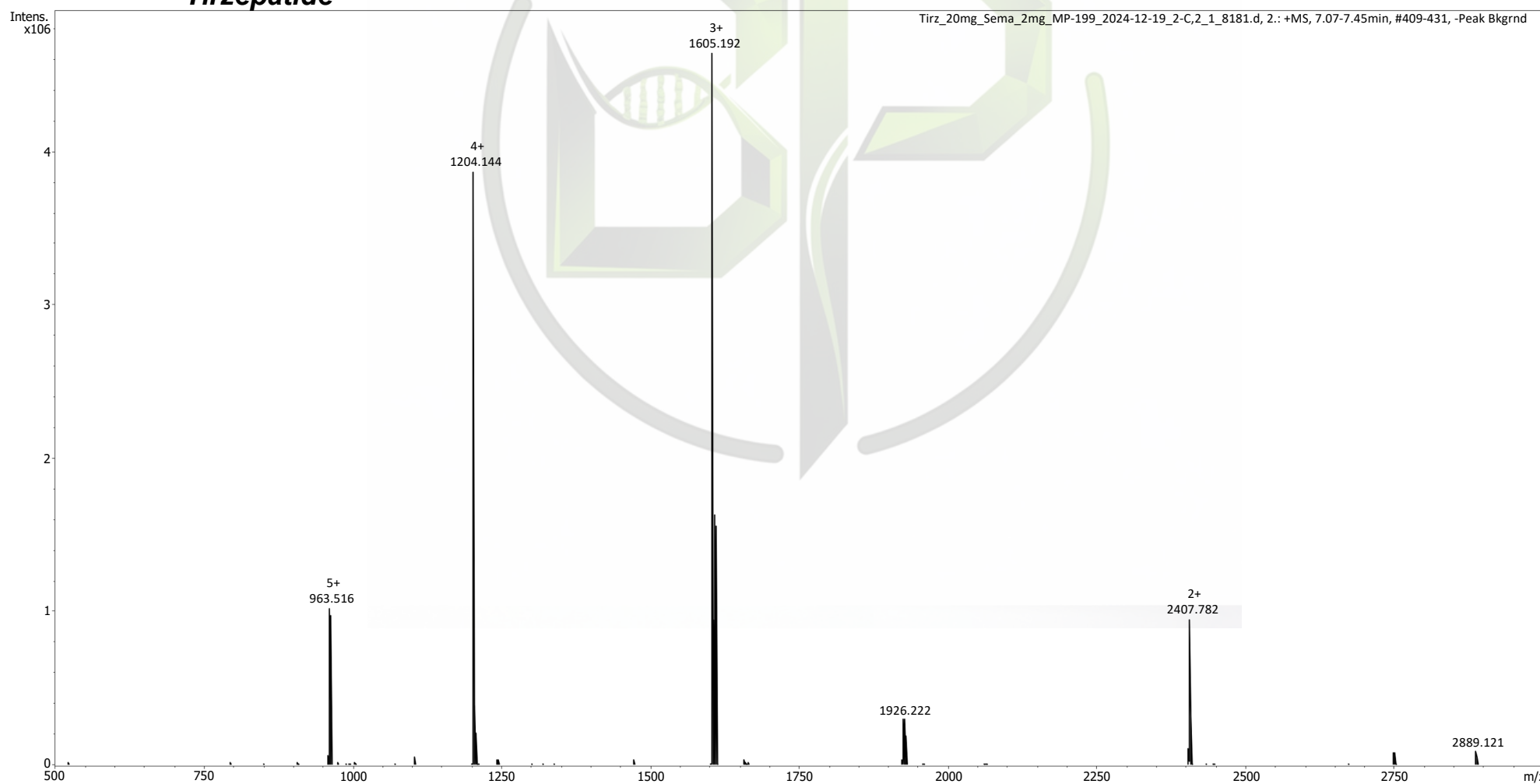
Molecular weight confirmed

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