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

Certificate of Analysis

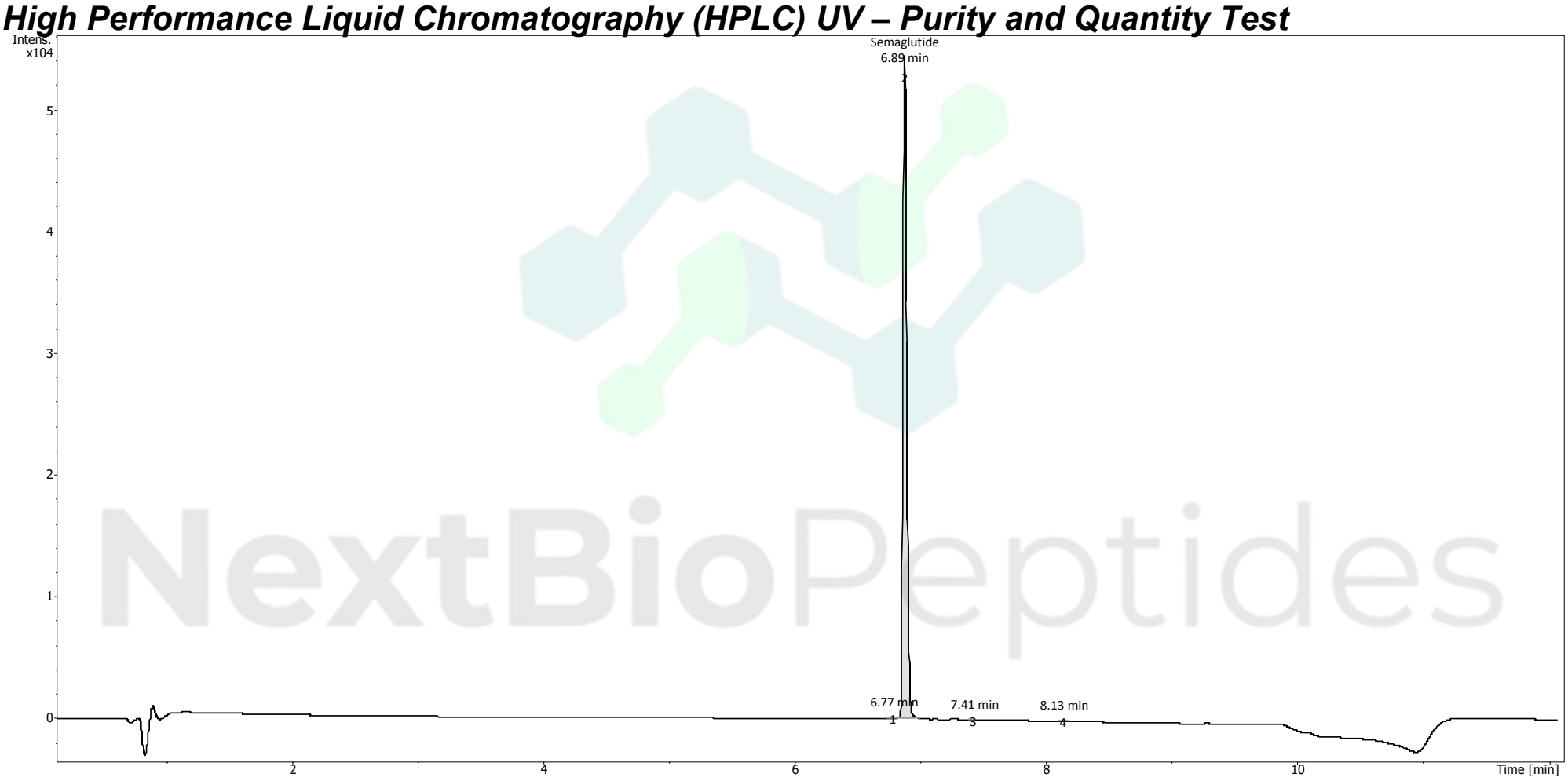
Semaglutide 5mg

Compound : ***Semaglutide***
Lot number : ***CG-460***
Analysis date : ***2025-01-03***
Purity % : ***99.87%***
Quantity : ***6.26 mg***
Method : ***HPLC-UV-MS***

Client : NextBioPeptides
nextbiopeptides.com

PubChem CID: 56843331
https://pubchem.ncbi.nlm.nih.gov/compound/56843331

High Performance Liquid Chromatography (HPLC) UV – Purity and Quantity Test



Sema_CG460_5mg_2024-12-19_2-A,7_1_8168.d: UV Chromatogram, 209.9-290.1 nm

PEAK LIST Number of detected peaks: 4

	Time (min)	Area	%Area	
1	6.77	4.63E+00	1.04	
2	***6.89***	***1.13E+09***	***99.87***	***Semaglutide***
3	7.41	4.28E+00	1.04	
4	8.13	5.39E+00	1.05	

Quantification by HPLC-UV
Measured quantity : 6.26 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.

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

2025-01-10

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Semaglutide 5 mg

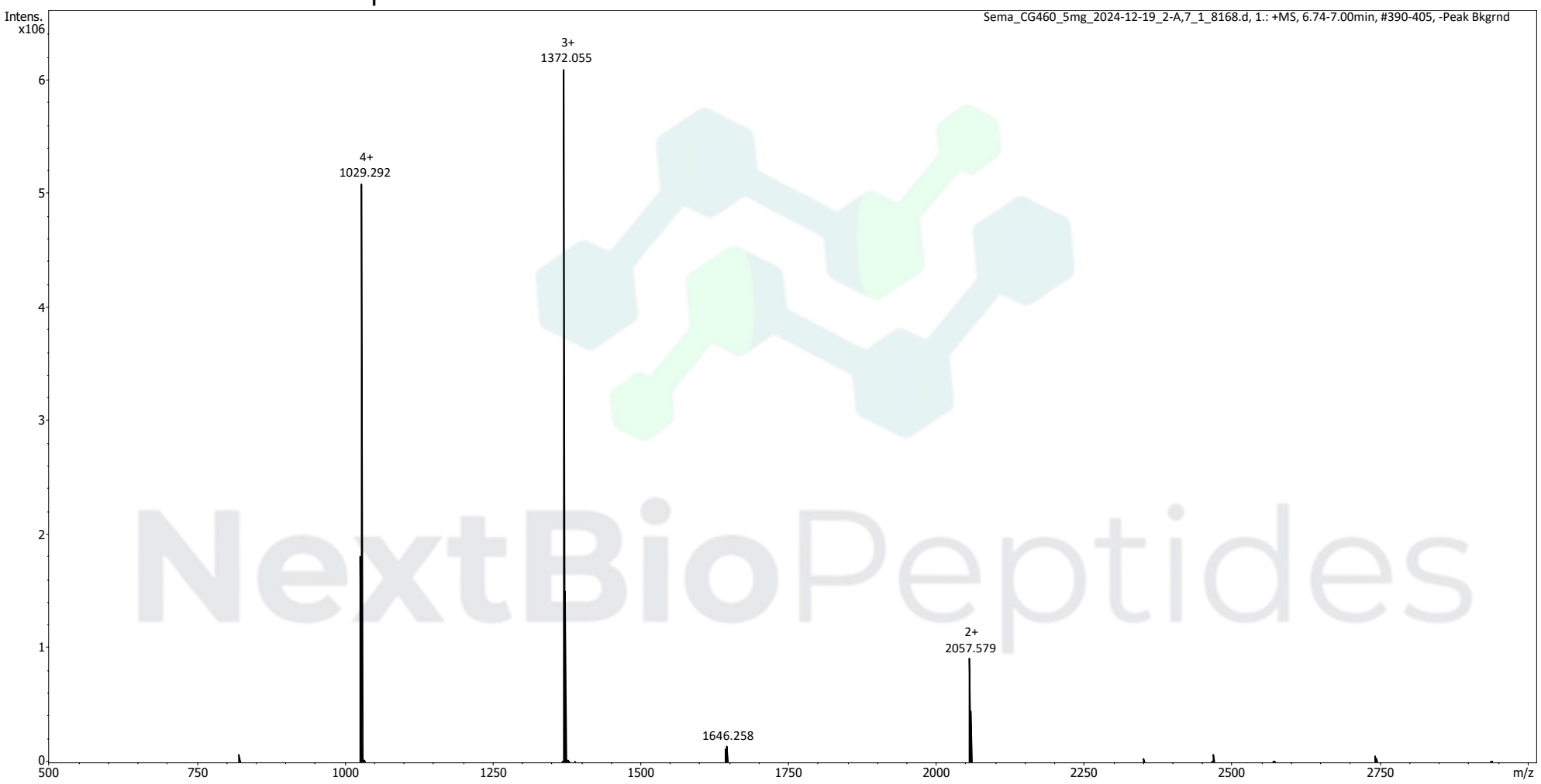
PubChem CID: 56843331
https://pubchem.ncbi.nlm.nih.gov/compound/56843331

Mass Spectrometry (MS) – Identity Test

Identity confirmed using HPLC-MS
Molecular weight calculated using monoisotopic m/z values from mass spectrum
Expected monoisotopic mass : 4111.12 Da
Measured monoisotopic mass : 4111.16 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



Analysis Performed by
Ken Pendarvis, ChE
Analytical Chemist
MZ Biolabs
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2025-01-10