



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

Certificate of Analysis

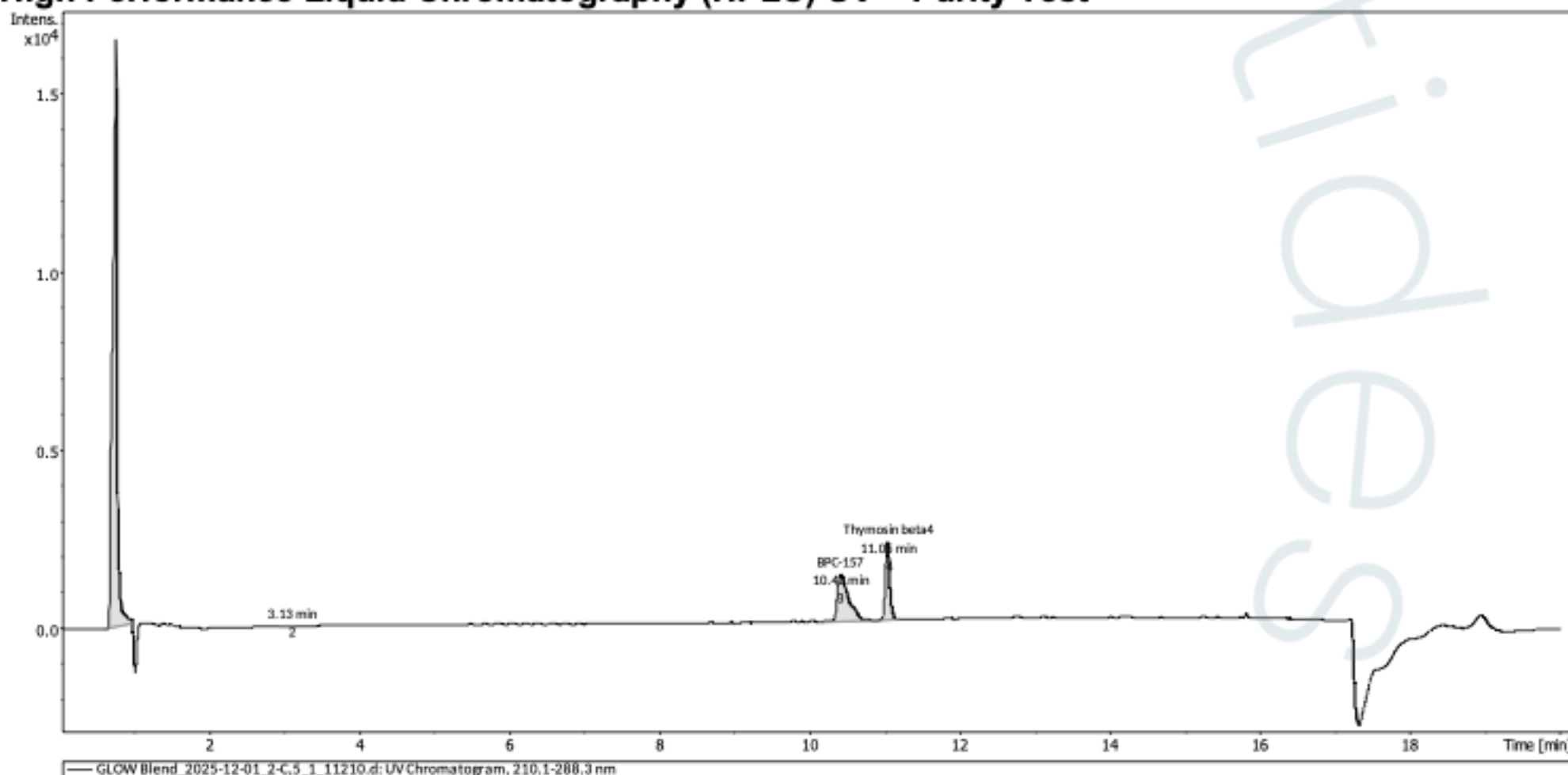
GHK-Cu, BPC-157, TB-500

Compounds : GHK-Cu
BPC-157
Thymosin beta4

Client : Tides Peptides
www.tidespeptides.com

Lot number : 2025-12-01
Analysis date : 2025-12-12
Purity % : 99.83%
Method : HPLC-UV-MS

High Performance Liquid Chromatography (HPLC) UV – Purity Test



PEAK LIST		Number of detected peaks: 7		
	Time (min)	Area	%Area	
1	0.80	6.81E+04	75.14	GHK-Cu
2	3.13	1.51E+02	0.17	
3	10.43	1.36E+04	15.03	BPC-157
4	11.05	8.75E+03	9.66	Thymosin beta4

Overall Purity : 99.83



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

2025-12-19

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.

GHK-Cu, BPC-157, TB-500

Mass Spectrometry (MS) – Identity Test

Identity confirmed using HPLC-MS

Molecular weight calculated using monoisotopic m/z values from mass spectrum

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.

GHK-Cu PubChemCID:71587328

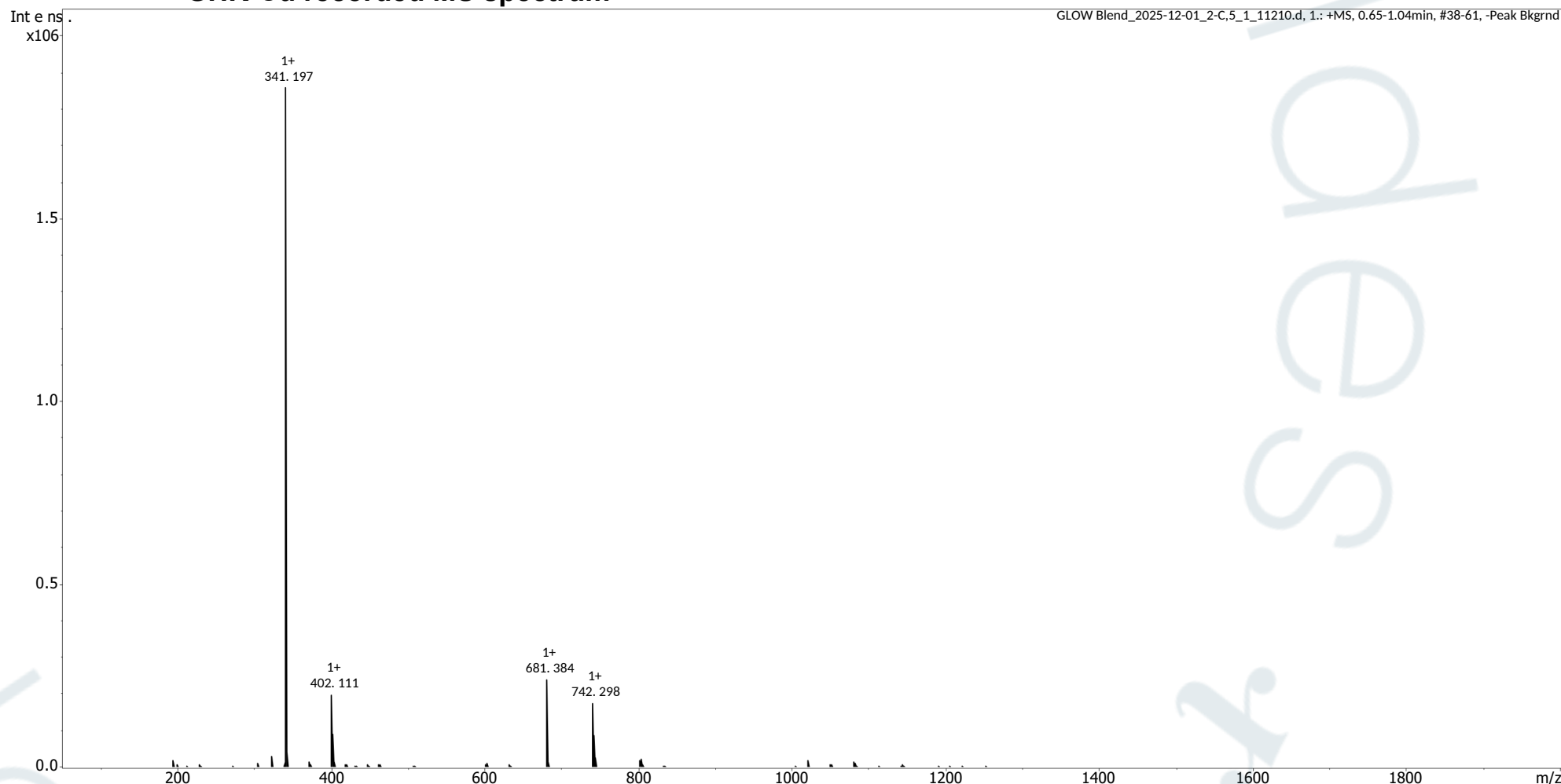
<https://pubchem.ncbi.nlm.nih.gov/compound/71587328>

Expected monoisotopic mass : 402.10 Da

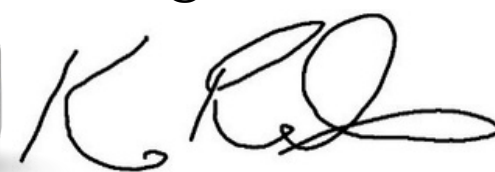
Measured monoisotopic mass : 402.11 Da

Molecular weight confirmed

GHK-Cu recorded MS spectrum



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GHK-Cu, BPC-157, TB-500

Mass Spectrometry (MS) – Identity Test

Identity confirmed using HPLC-MS

Molecular weight calculated using monoisotopic m/z values from mass spectrum

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BPC-157 PubChemCID:9941957

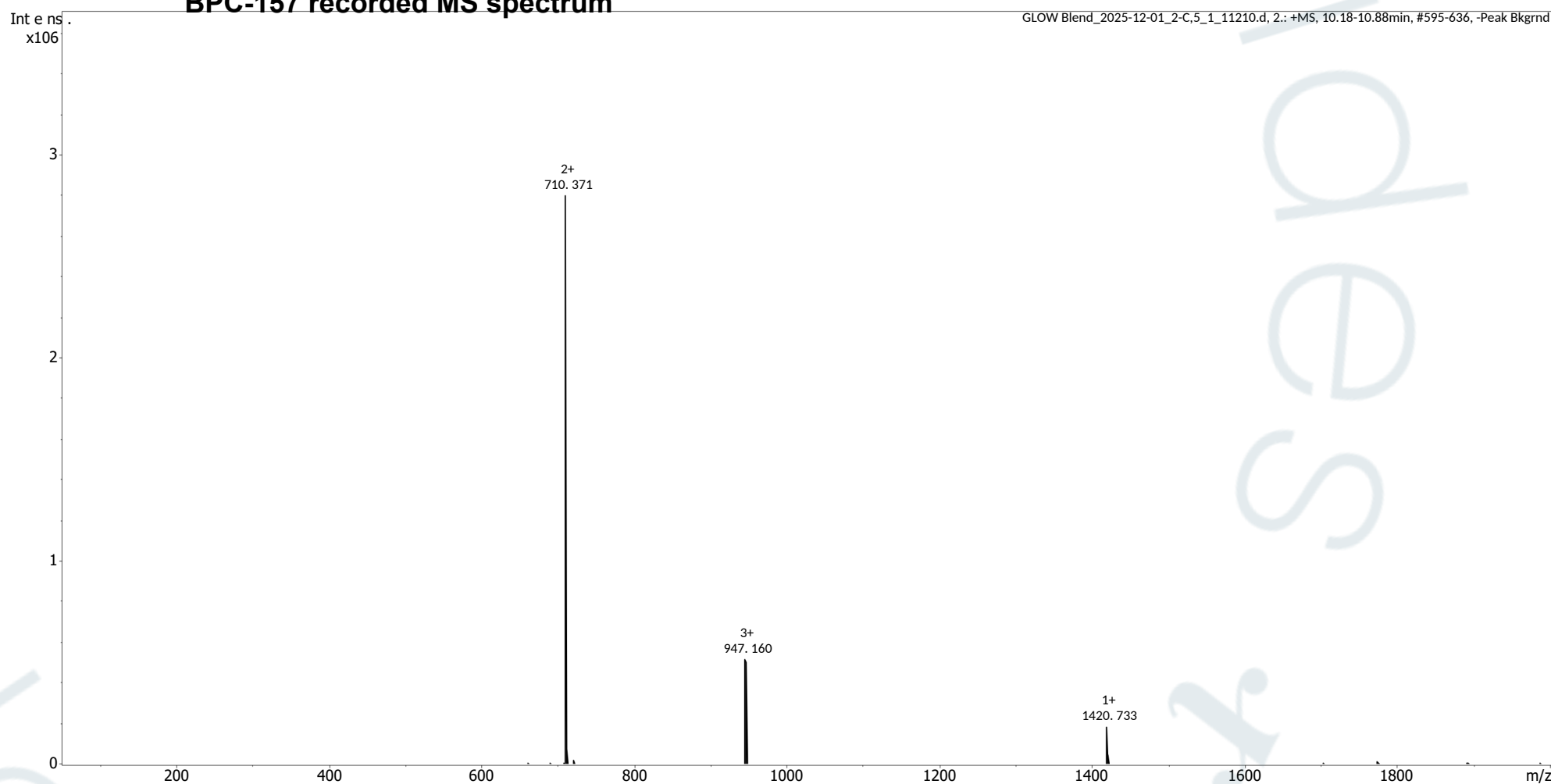
<https://pubchem.ncbi.nlm.nih.gov/compound/9941957>

Expected monoisotopic mass : 1418.70 Da

Measured monoisotopic mass : 1418.74 Da

Molecular weight confirmed

BPC-157 recorded MS spectrum



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GHK-Cu, BPC-157, TB-500

Mass Spectrometry (MS) – Identity Test

Identity confirmed using HPLC-MS

Molecular weight calculated using monoisotopic m/z values from mass spectrum

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.

Thymosin beta4 PubChemCID:16132341

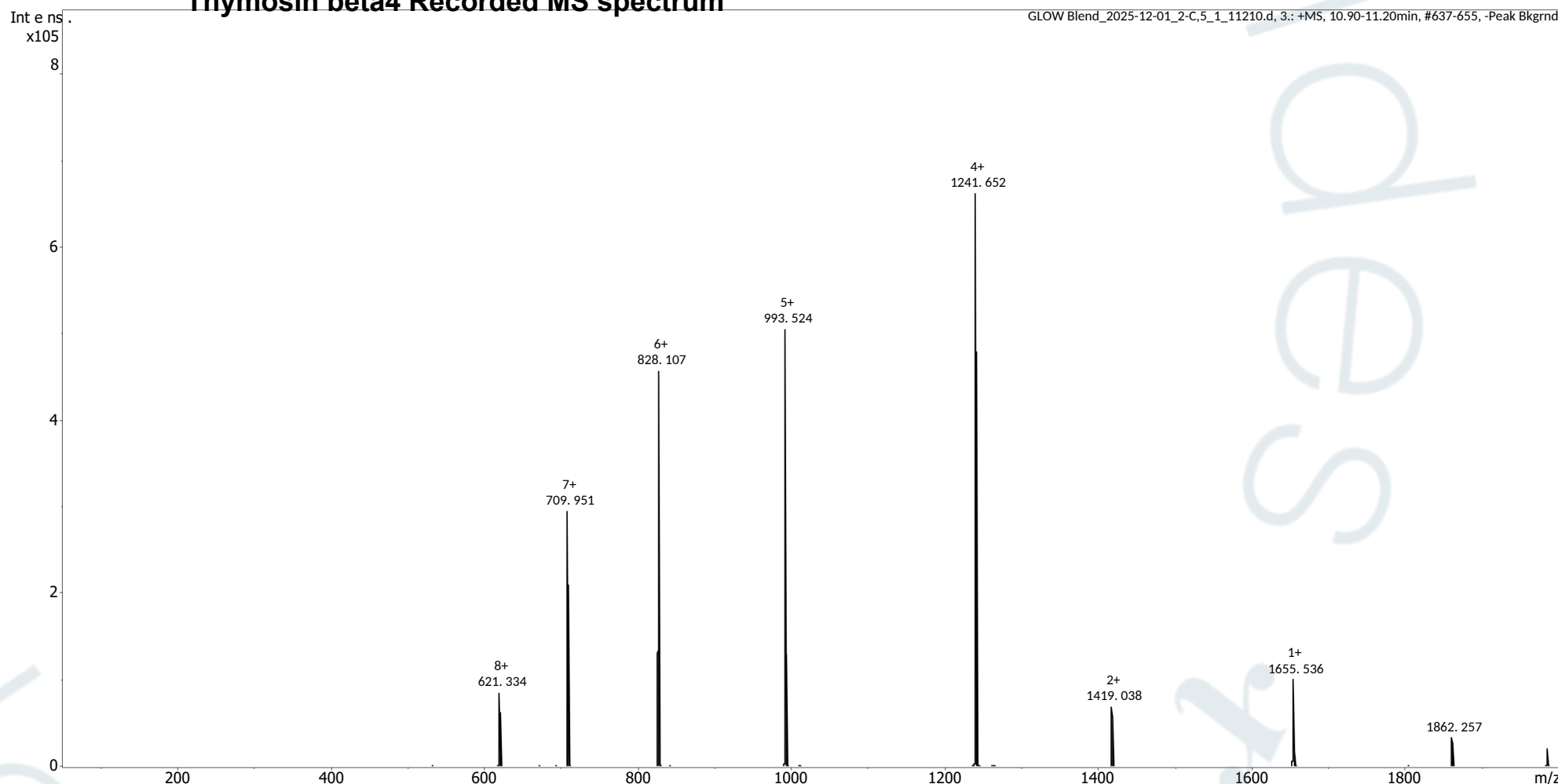
<https://pubchem.ncbi.nlm.nih.gov/compound/16132341>

Expected monoisotopic mass : 4960.48 Da

Measured monoisotopic mass : 4960.61 Da

Molecular weight confirmed

Thymosin beta4 Recorded MS spectrum



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