

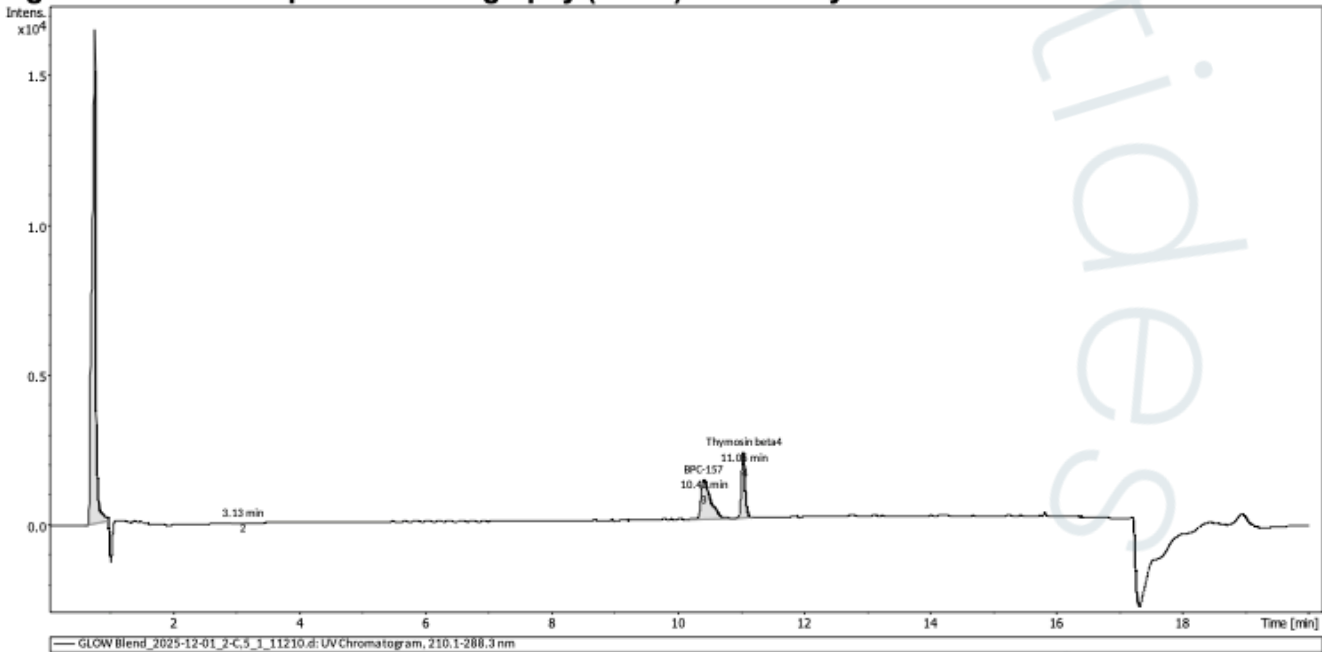
Certificate of Analysis

GHK-Cu, BPC-157, TB-500

Compounds : GHK-Cu
 BPC-157
 Thymosin beta4
Lot number : 2025-12-01
Analysis date : 2025-12-12
Purity % : 99.83%
Method : HPLC-UV-MS

Client : Tides Peptides
www.tidespeptides.com

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

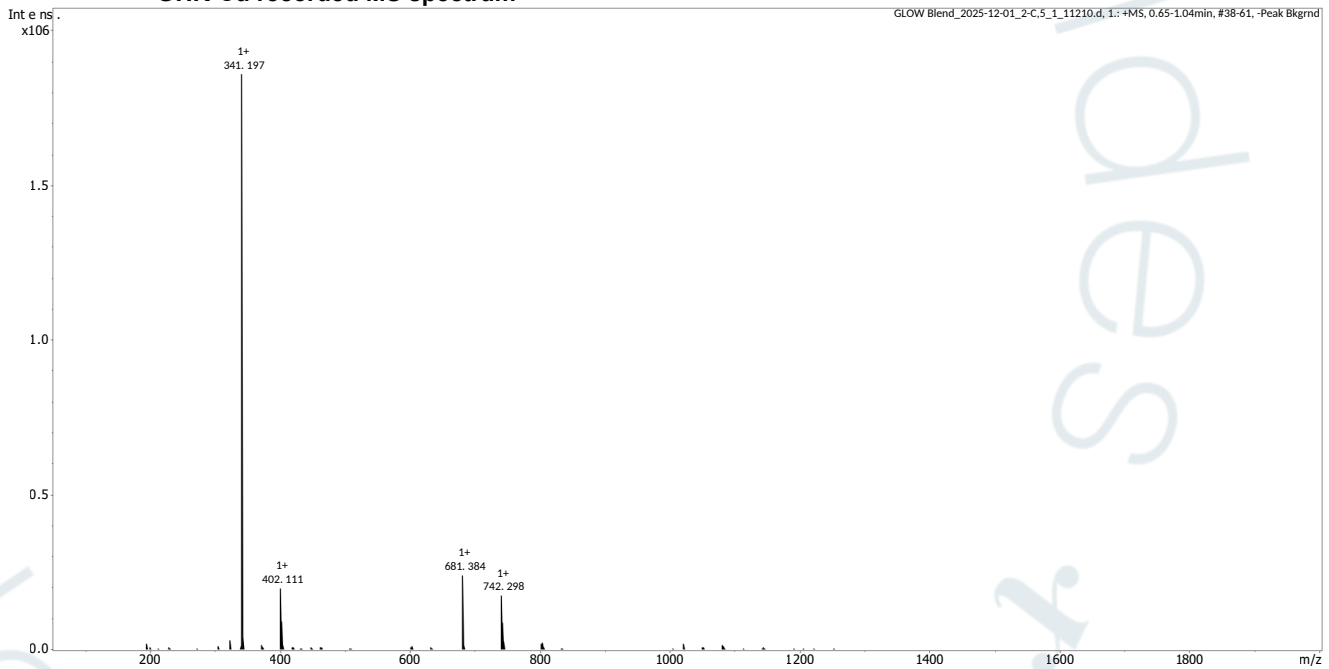
<https://pubchem.ncbi.nlm.nih.gov/compound/71587328>

Expected monoisotopic mass : 402.10 Da

Measured monoisotopic mass : 402.11 Da

Molecular weight confirmed

GHK-Cu recorded MS spectrum



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

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BPC-157 PubChemCID:9941957

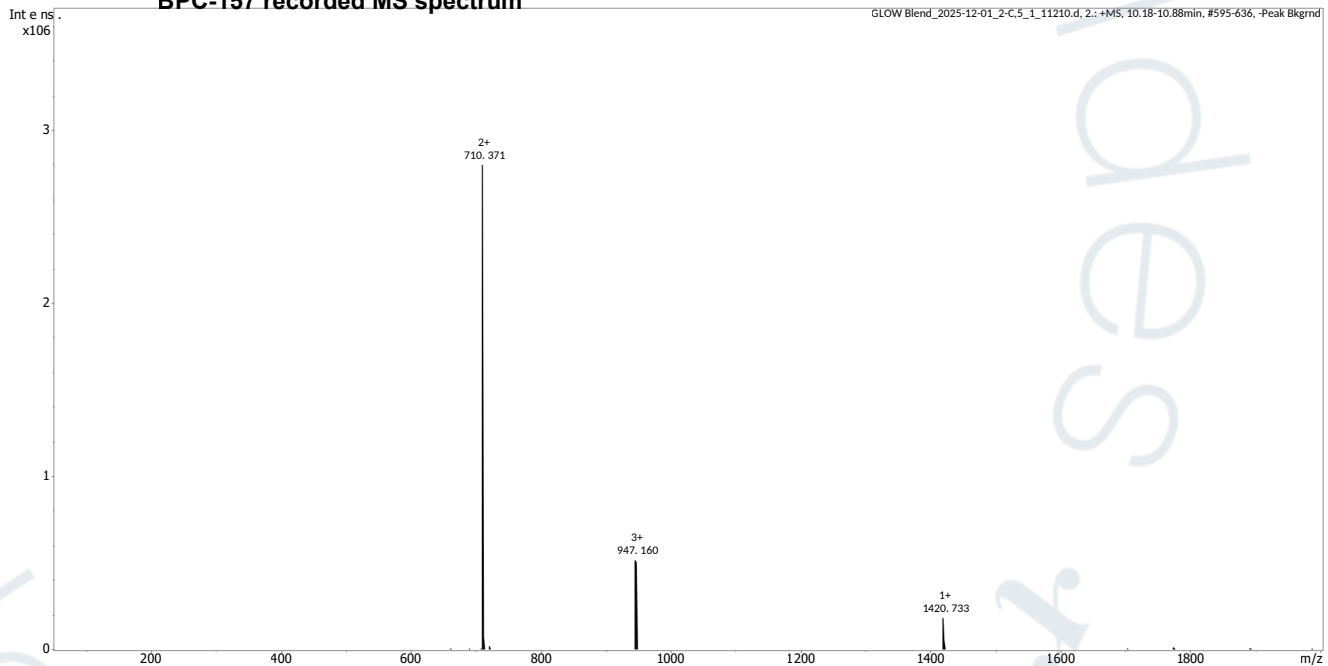
<https://pubchem.ncbi.nlm.nih.gov/compound/9941957>

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

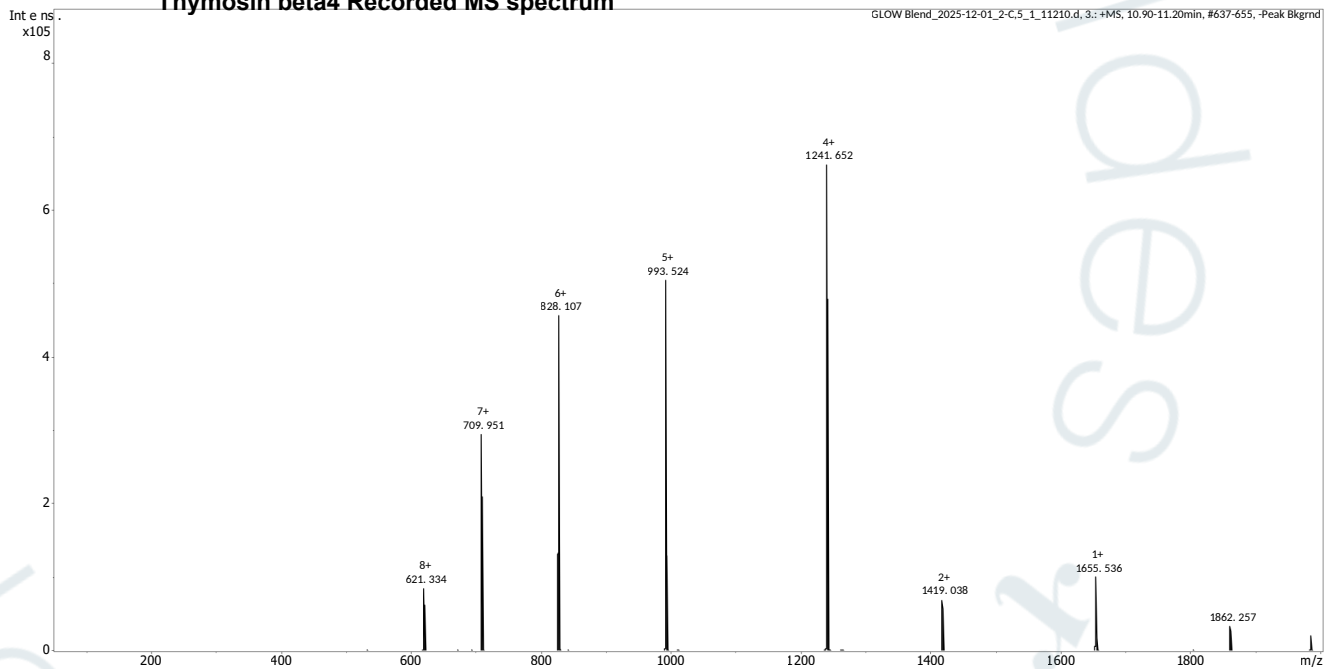
<https://pubchem.ncbi.nlm.nih.gov/compound/16132341>

Expected monoisotopic mass : 4960.48 Da

Measured monoisotopic mass : 4960.61 Da

Molecular weight confirmed

Thymosin beta4 Recorded MS spectrum



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