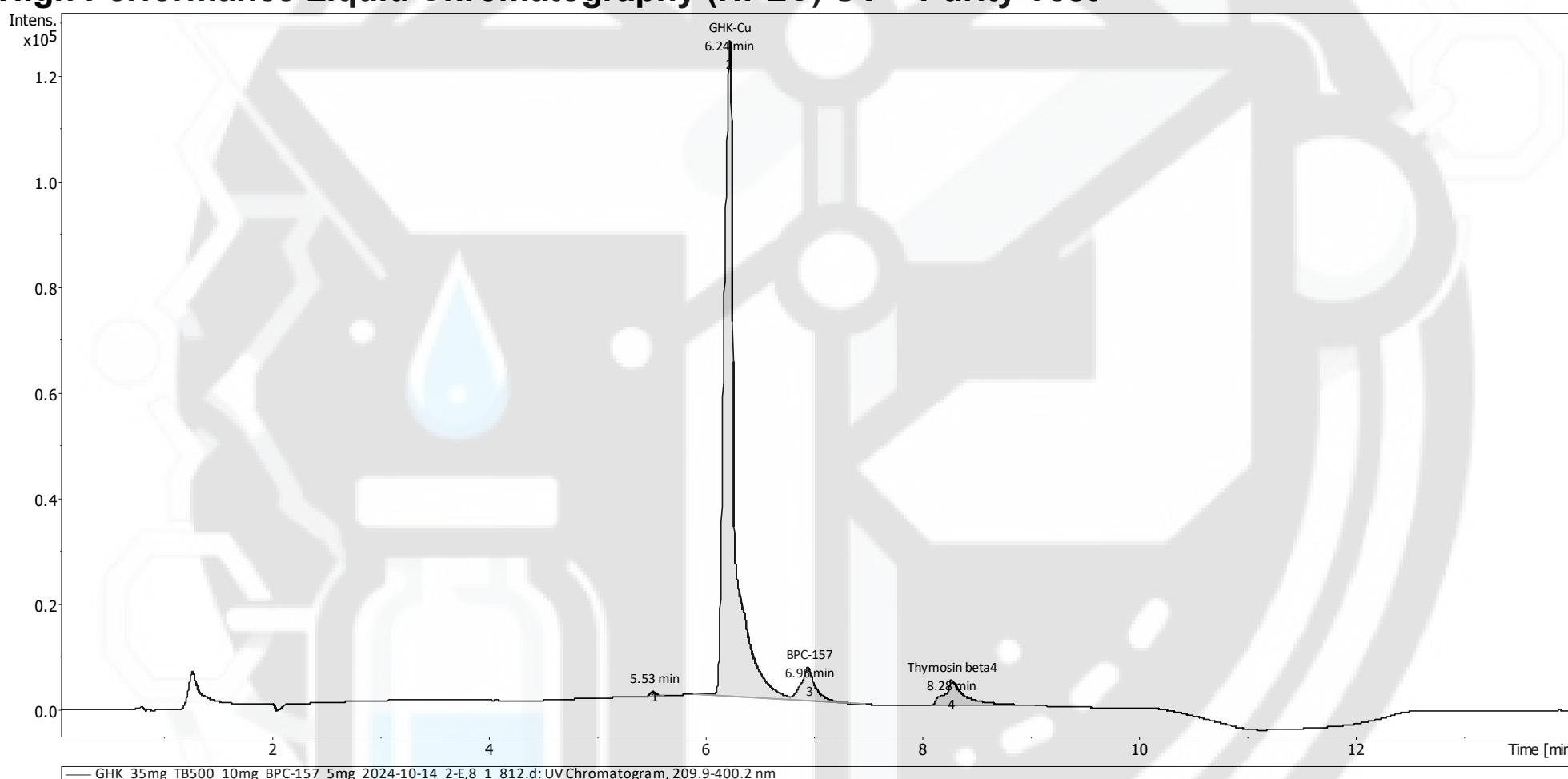


# Certificate of Analysis

**GHK Copper 35 mg, BPC-157 5mg, Thymosin beta4 10 mg**

**Compound** : GHK-Cu, BPC-157, Thymosin beta4 **Client** : Transforma Peptides  
**Lot number** : 2024-10-14 [www.transformapeptides.com](http://www.transformapeptides.com)  
**Analysis date** : 2024-11-05  
**Purity %** : 99.68%  
**Method** : HPLC-UV-MS

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



PEAK LIST		Number of detected peaks: 4		
	Time (min)	Area	%Area	
1	5.53	3.18E+03	0.32	
2	6.24	8.77E+05	87.64	GHK-Cu
3	6.96	5.91E+04	5.90	BPC-157
4	8.28	6.15E+04	6.14	Thymosin beta4

**Overall Purity : 99.68**

Analysis Performed by  
 Ken Pendarvis, ChE  
 Analytical Chemist  
 MZ Biolabs  
[contact@mzbiolabs.com](mailto:contact@mzbiolabs.com)



2024-11-06

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 Copper 35 mg, BPC-157 5mg, Thymosin beta4 10 mg

## 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 PubChem CID: 71587328

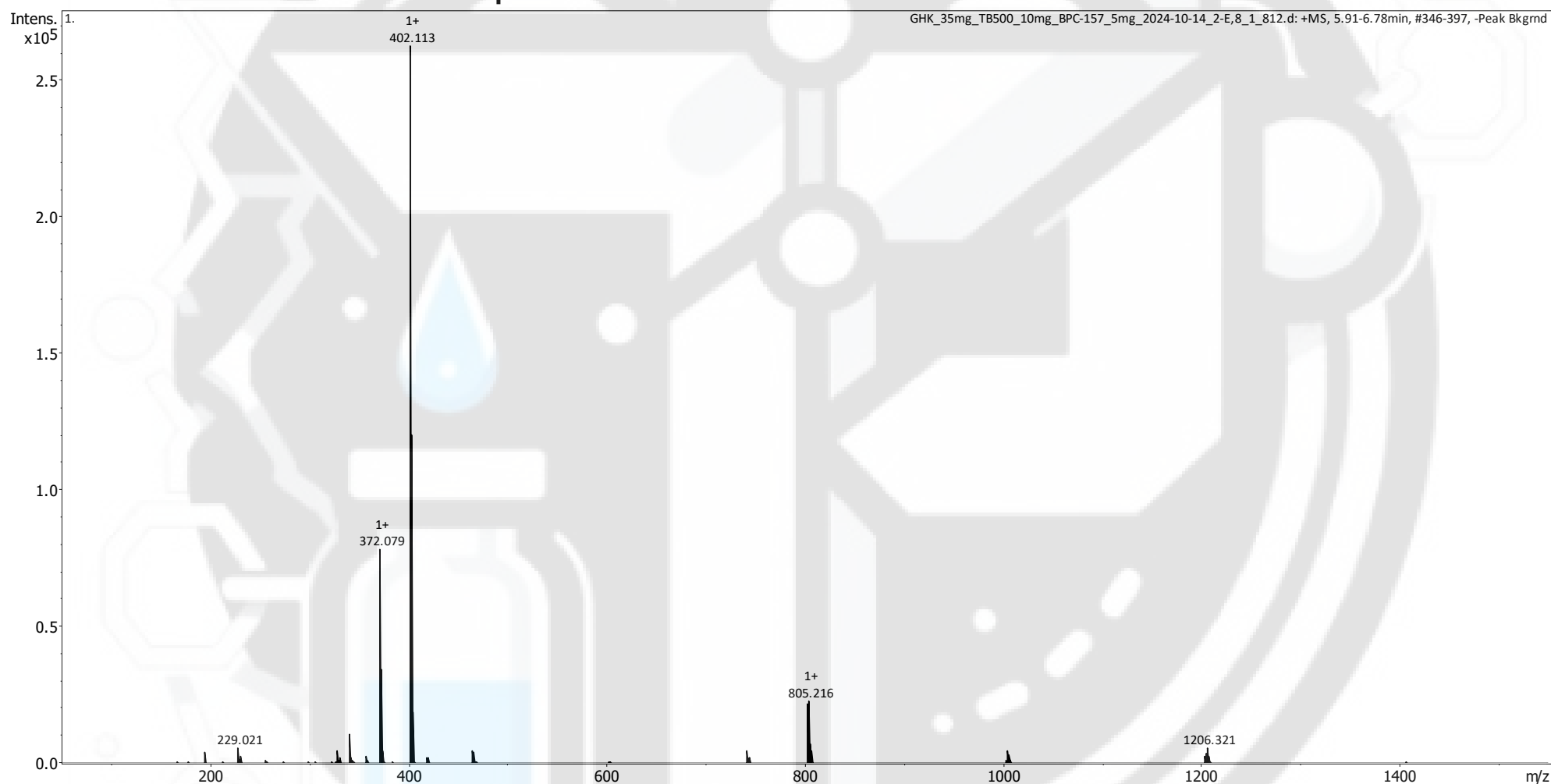
<https://pubchem.ncbi.nlm.nih.gov/compound/71587328>

Expected monoisotopic mass : 402.10 Da

Measured monoisotopic mass : 402.11 Da

**Molecular weight confirmed**

### GHK-Cu recorded MS spectrum



Analysis Performed by  
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2024-11-06

# GHK Copper 35 mg, BPC-157 5mg, Thymosin beta4 10 mg

## 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.

### BPC-157 PubChem CID: 9941957

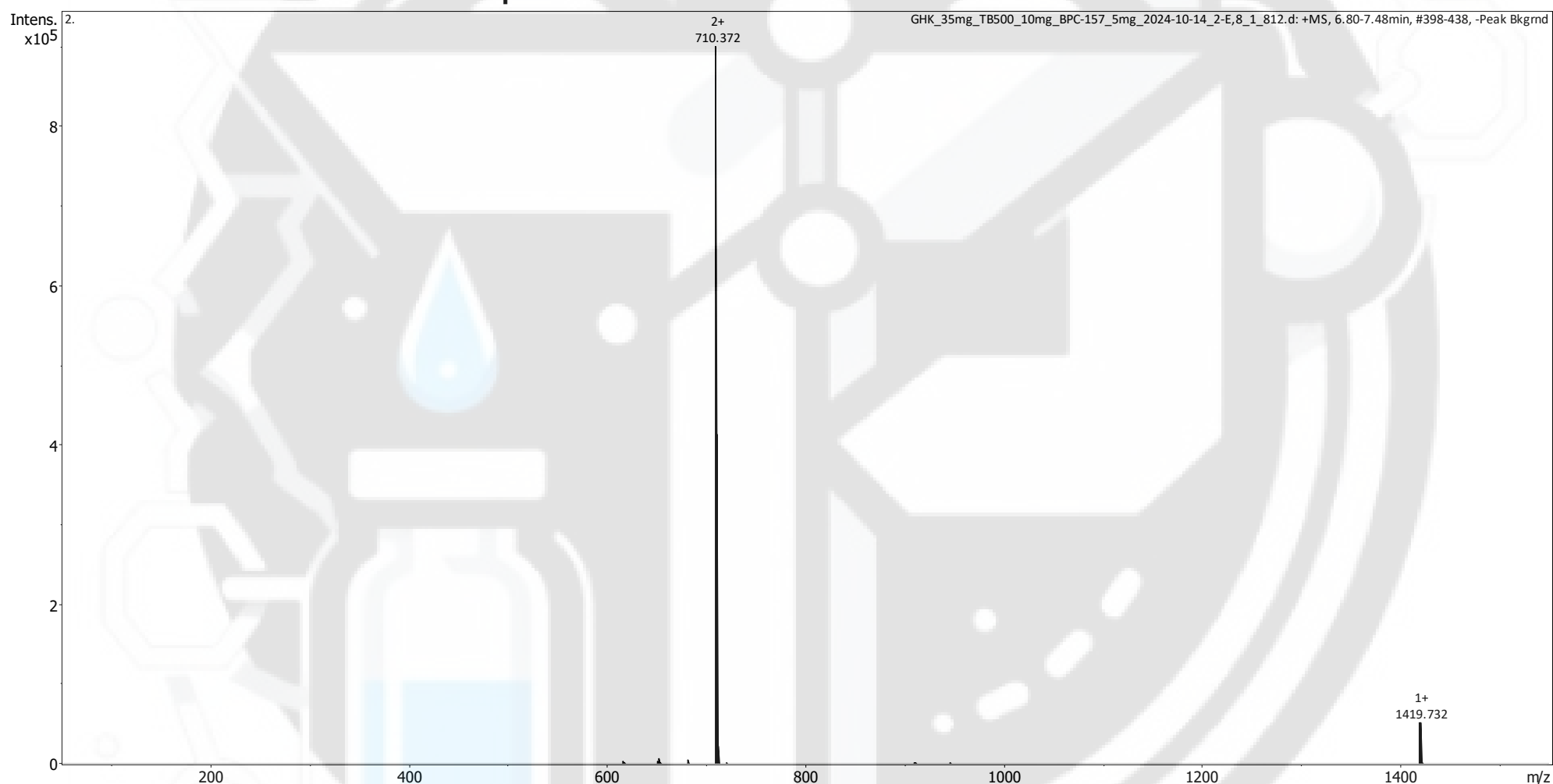
<https://pubchem.ncbi.nlm.nih.gov/compound/9941957>

Expected monoisotopic mass : 1418.70 Da

Measured monoisotopic mass : 1418.74 Da

**Molecular weight confirmed**

### BPC-157 recorded MS spectrum



Analysis Performed by  
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2024-11-06

# GHK Copper 35 mg, BPC-157 5mg, Thymosin beta4 10 mg

## 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 PubChem CID: 16132341

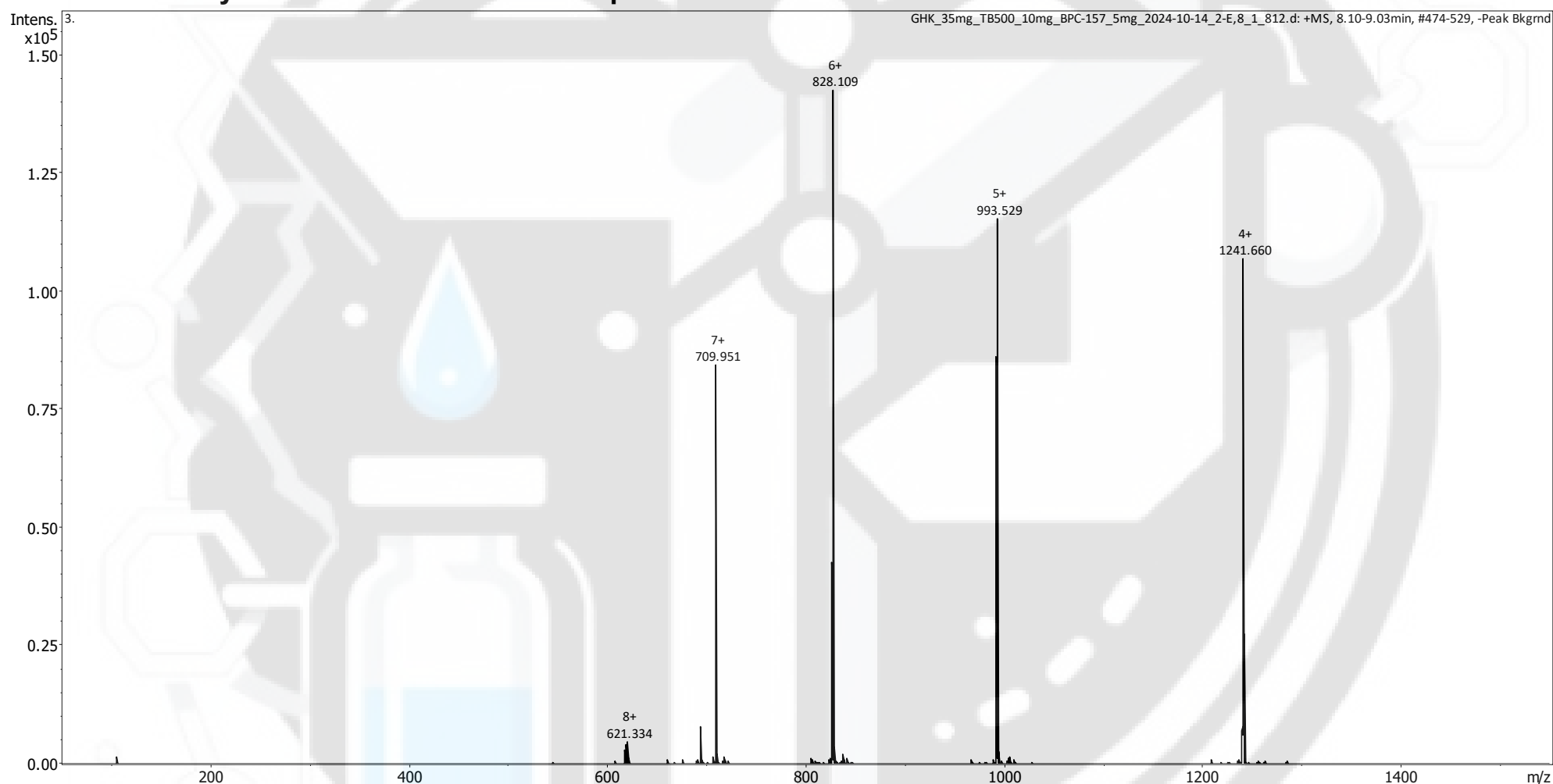
<https://pubchem.ncbi.nlm.nih.gov/compound/16132341>

Expected monoisotopic mass : 4960.48 Da

Measured monoisotopic mass : 4960.64 Da

**Molecular weight confirmed**

### Thymosin beta4 Recorded MS spectrum



Analysis Performed by  
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2024-11-06