

Certificate of Analysis

BPC-157 + TB-500

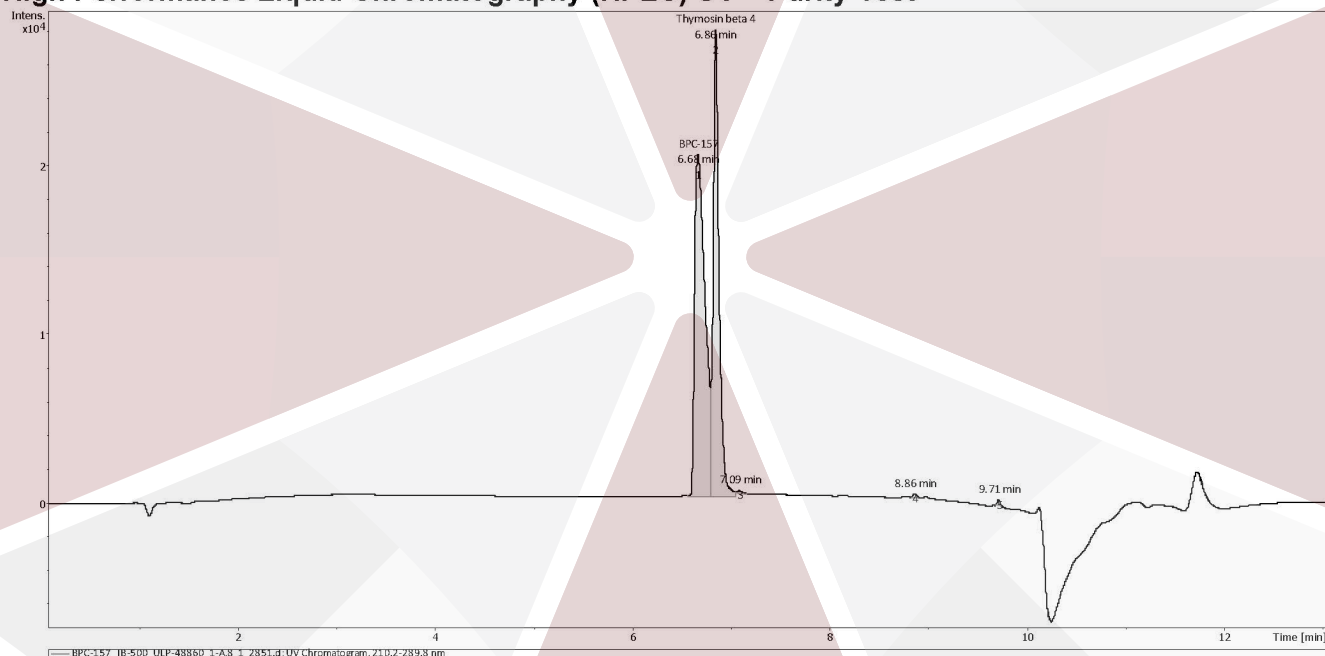
Compound : BPC-157, TB-500
Lot number : ULP-48860
Analysis date : 2024-05-15
Purity % : 99.48%
Method : HPLC-UV-MS

Client : UMBRELLA.us
3280 E Hemisphere Loop
Tucson, Arizona 85706

BPC-157 PubChem CID: 9941957
<https://pubchem.ncbi.nlm.nih.gov/compound/9941957>

TB-500 PubChem CID: 16132341
<https://pubchem.ncbi.nlm.nih.gov/compound/16132341>

High Performance Liquid Chromatography (HPLC) UV – Purity Test



BPC-157_TB-500_ULP-48860_1-AS_1_2851.3 UV Chromatogram, 210.2-289.8 nm

PEAK LIST		Number of detected peaks: 5		
	Time (min)	Area	%Area	
1	6.68	1.48E+05	55.53	BPC-157
2	6.86	1.17E+05	43.95	TB-500
3	7.09	3.48E+02	0.13	
4	8.86	4.50E+02	0.17	
5	9.71	5.83E+02	0.22	

Overall purity : 99.48

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



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.

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Mass Spectrometry (MS) – Identity Test

Identity confirmed using HPLC-MS

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

BPC-157

Expected monoisotopic mass : 1418.70 Da

Measured monoisotopic mass : 1418.70 Da

Molecular weight confirmed

TB-500

Expected monoisotopic mass : 4960.48 Da

Measured monoisotopic mass : 4960.44 Da

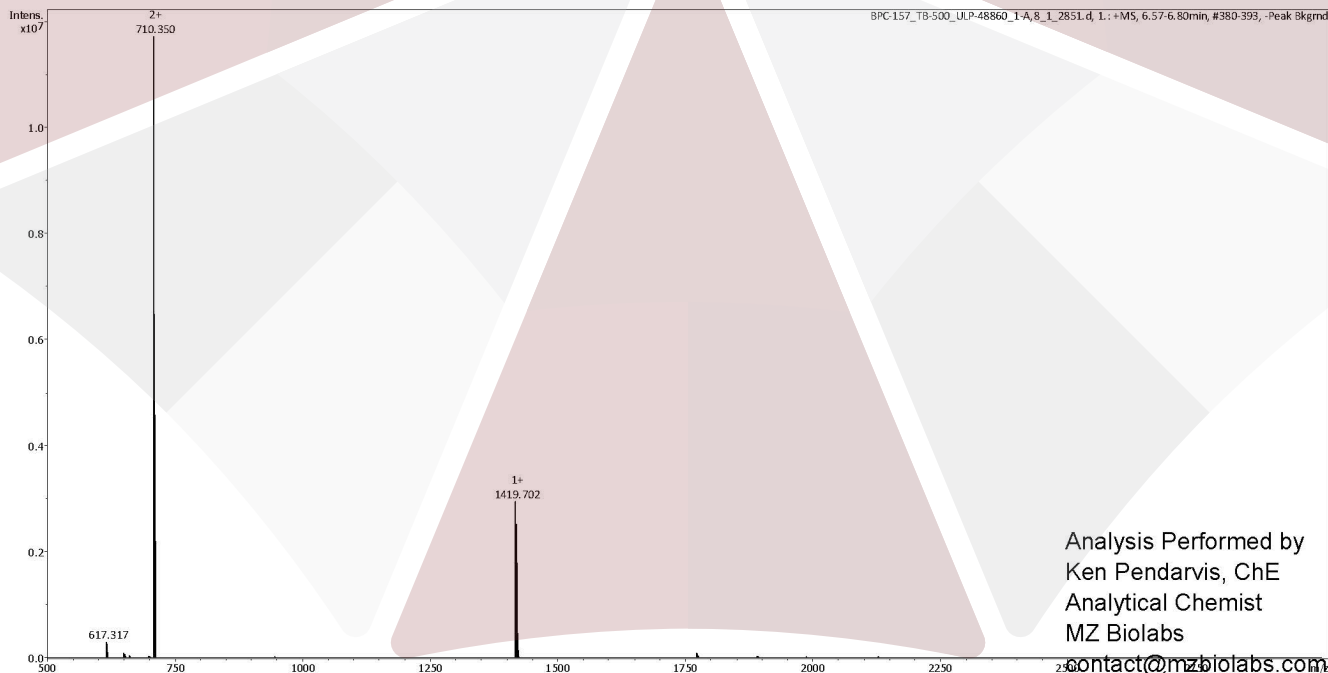
Molecular weight confirmed

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 spectra

BPC-157



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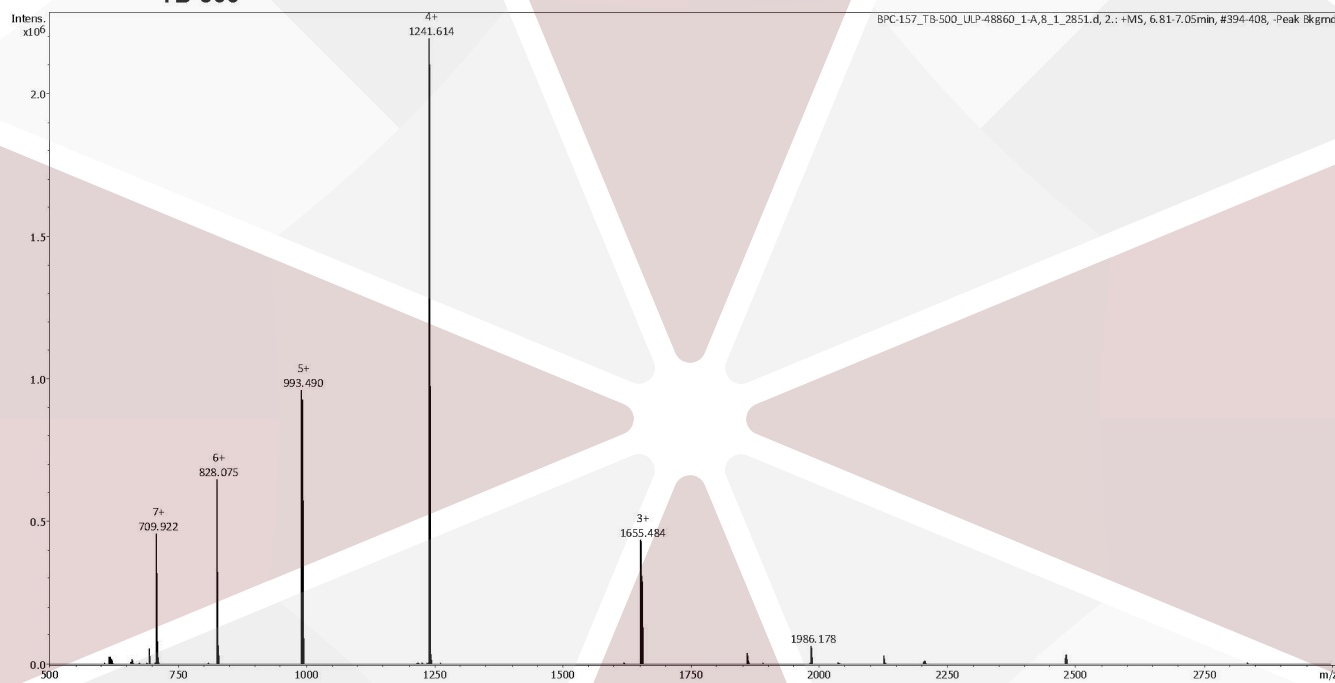
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Mass Spectrometry (MS) – Identity Test

Recorded MS spectra

TB-500



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