

MZ Biolabs
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Tucson, AZ 85716

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Certificate of Analysis BPC-157 + Thymosin beta4

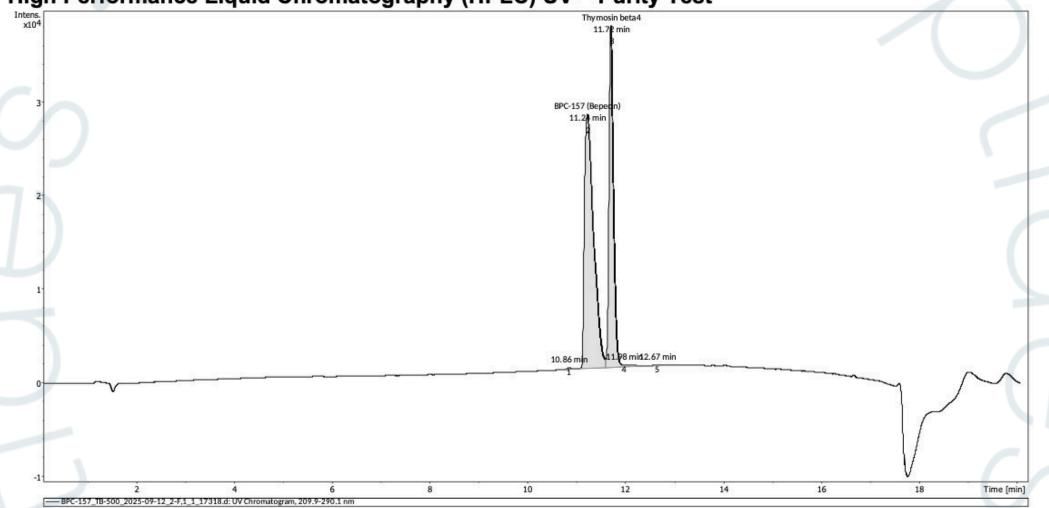
Compound : BPC-157, Thymosin beta4 Client : Tides Peptides

Lot number : 2025-09-12 <u>www.tidespeptides.com</u>

Analysis date : 2025-09-22 Purity % : 99.76%

Method : HPLC-UV-MS

High Performance Liquid Chromatography (HPLC) UV - Purity Test



Р	EAK LIST	Number of detecte	ed peaks: 5	
	Time (min)	Area	%Area	
1	10.86	7.90E+02	0.13	
2	11.24	3.52E+05	59.71	BPC-157
3	11.72	2.36E+05	40.05	Thymosin beta4
4	11.98	2.88E+02	0.05	

Overall Purity: 99.76

0.06

•tides.

BPC-157+
TB-500 Blend
10mg/10mg

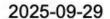
Analysis Performed by Ken Pendarvis, ChE Analytical Chemist MZ Biolabs contact@mzbiolabs.com

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.

3.35E+02

12.67

5





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Mass Spectrometry (MS)–IdentityTest

IdentityconfirmedusingHPLC-MS

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

Note: Monoisotopicm/zvaluesare not easilyseen in fullspectrumviewfor larger moleculesandpeptides.

The dominant isotopic peak (base peak) shown in the spectrum below can be used to approximate the average

molecularweight frequently reported by vendors and databases as a secondary means of confirmation.

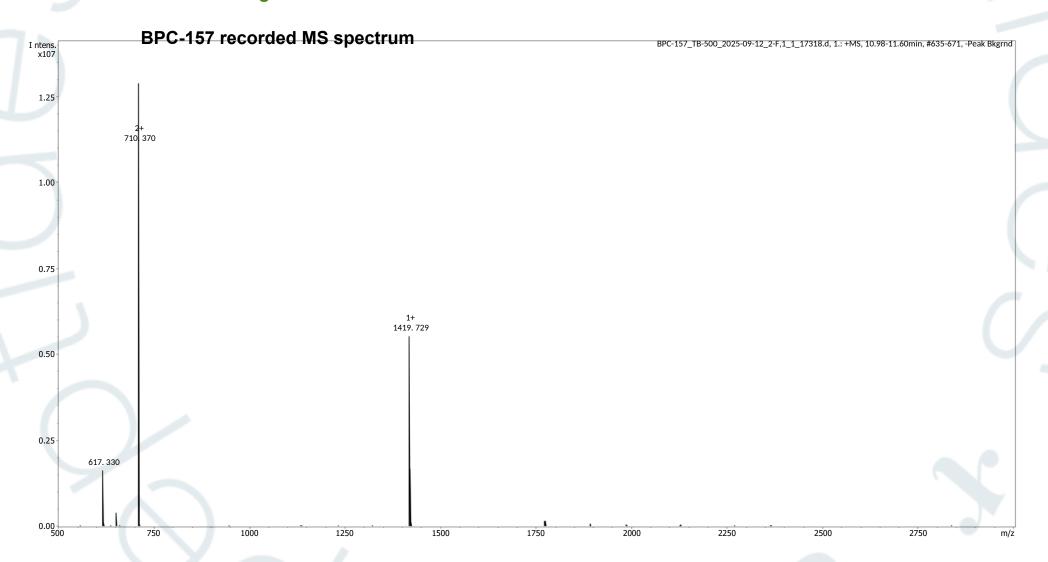
BPC-157

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



•lides.
BPC-157+
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2025-09-29



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Mass Spectrometry (MS)-IdentityTest

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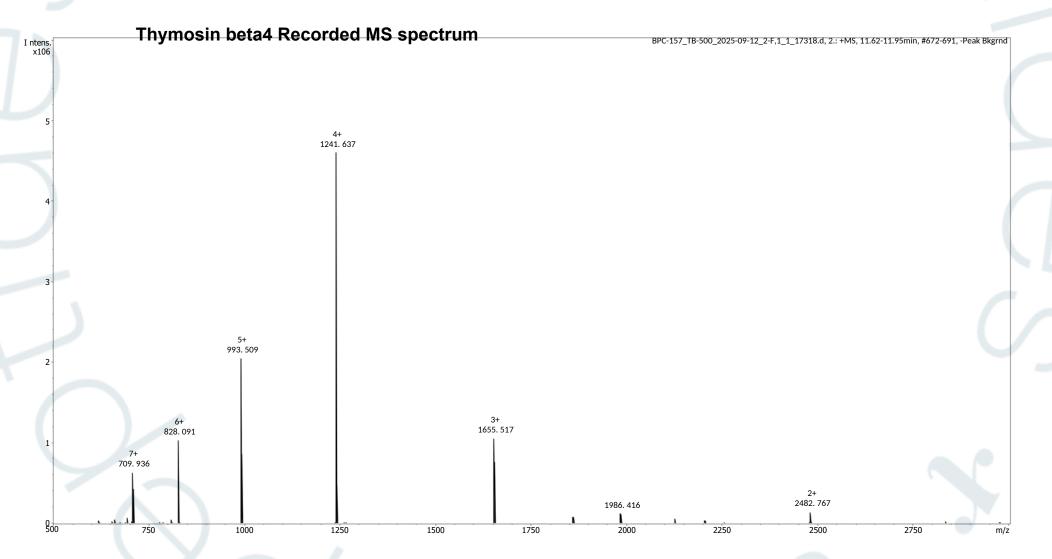
Thymosin beta4

PubChem CID: 16132341

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

Expected monoisotopic mass: 4960.48 Da Measured monoisotopic mass: 4960.53 Da

Molecular weight confirmed



-lides.
BPC-157+
TB-500 Blend
10mg/10mg

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2025-09-29



CERTIFICATE OF ANALYSIS

Product Name	BPC-157	CAS NO.	137525-51-0
Batch NO.	NCBPC250621	Molecular formula	C26H98N16O22
Manufacture Date	June.21, 2025	Molecular weight	1419.56
Reference standard	Enterprise Standard		

TEST	SPECIFICATION	RESULTS
Appearance	White or almost white fluffy powder	Conforms
Identity by HPLC	The retention time of the main principal of the test Solution corresponds to that of the reference Solution, as obtained in the assay	Conforms
Solubility	≥100mg/ml(H2O)	Conforms
Purity(HPLC)	≥ 98%	99.5%
Acetic Acid	≤ 5.0%	0.05%
Water	≤ 8.0%	3.61%
Trifluoroacetic acid	≤ 0.5%	Not detected
рН	3.0~5.0	4.05
Related Substances	Total impurities ≤ 2.0%	0.5%
	Large Single Impurity ≤ 1.0%	0.27%
Bacterial Endotoxins	≤ 10 EU/mg	Conforms
Peptide Assay	≥ 90.0%	95.7%
Conclusion	This product conforms to the Enterprise Standard.	

Note: this product is intended for research use only

Important: Stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated.



CERTIFICATE OF ANALYSIS

Product Name	TB-500	CAS NO.	77591-33-4
Batch NO.	NCTB250610	Molecular formula	C212H350N56O78S
Manufacture Date	June 10, 2025	Molecular weight	4963.44
Reference standard	Enterprise Standa	rd	

TEST	SPECIFICATION	RESULTS
Appearance	White or almost white fluffy powder	Conforms
Identity by HPLC The retention time of the main principal the test Solution corresponds to that or reference Solution, as obtained in the accordance in the second		Conforms
Solubility Soluble in H2O		Conforms
Purity(HPLC)	≥ 98%	99.1%
Acetic Acid	≤ 5.0%	0.09% 5.69%
Water	≤ 8.0%	
Trifluoroacetic acid	≤ 0.5%	Not detected
рН	4.0~6.0	4.93
Related Substances	Total impurities ≤ 2.0%	0.9%
Related Substances	Large Single Impurity ≤ 1.0%	0.55%
Bacterial Endotoxins ≤ 10 EU/mg		Conform
Peptide Assay	≥ 90.0%	92.32%
Conclusion	This product conforms to the Enterprise Standard.	

Note: this product is intended for research use only

Important: Stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated.