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

Certificate of Analysis

TB-500 5mg

Compound	: **TB-500**	**Client :**	**Adaptog**
Lot number	: **2026-07-15 (Vial 3)**		
Analysis date	: **2026-07-31**		
Purity %	: **99.99%**		
Method	: **HPLC-UV-MS**		

PubChem CID : Thymosin-Beta-4
https://pubchem.ncbi.nlm.nih.gov/compound/Thymosin-Beta-4

High Performance Liquid Chromatography (HPLC) UV – Purity Test

PEAK LIST Number of detected peaks: 2

	Time (min)	Area	%Area	
1	**7.01**	**1.33E+05**	**99.99**	**TB-500**
2	7.28	1.14E+01	0.01	

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

2026-08-06

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.

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Mass Spectrometry (MS) – Identity Test

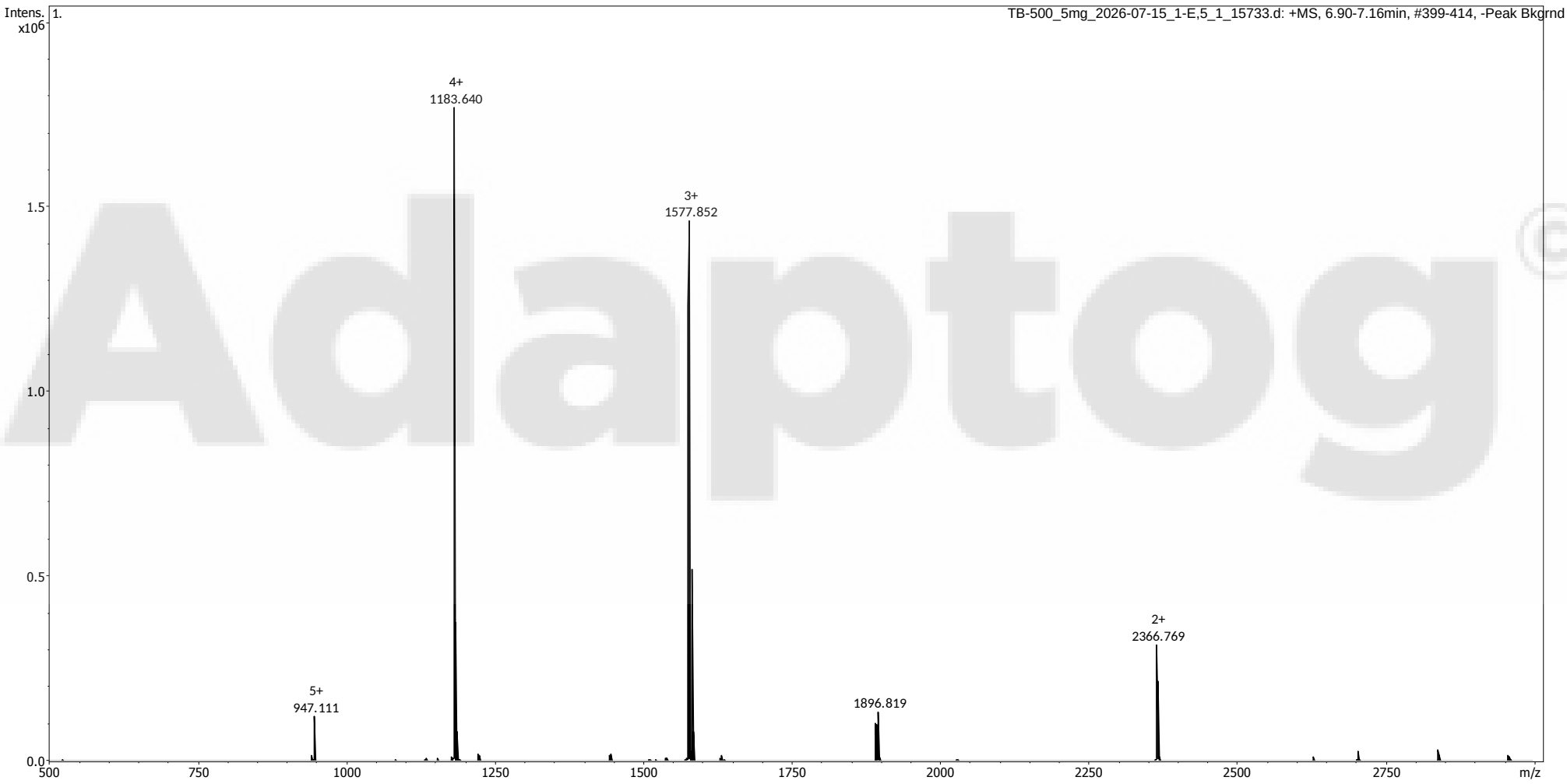
Identity confirmed using HPLC-MS
Molecular weight calculated using monoisotopic m/z values from mass spectrum

Expected monoisotopic mass :	4960.4863169	Da
Measured monoisotopic mass :	4960.4863169	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 spectrum



Adaptog ©

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