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

Certificate of Analysis

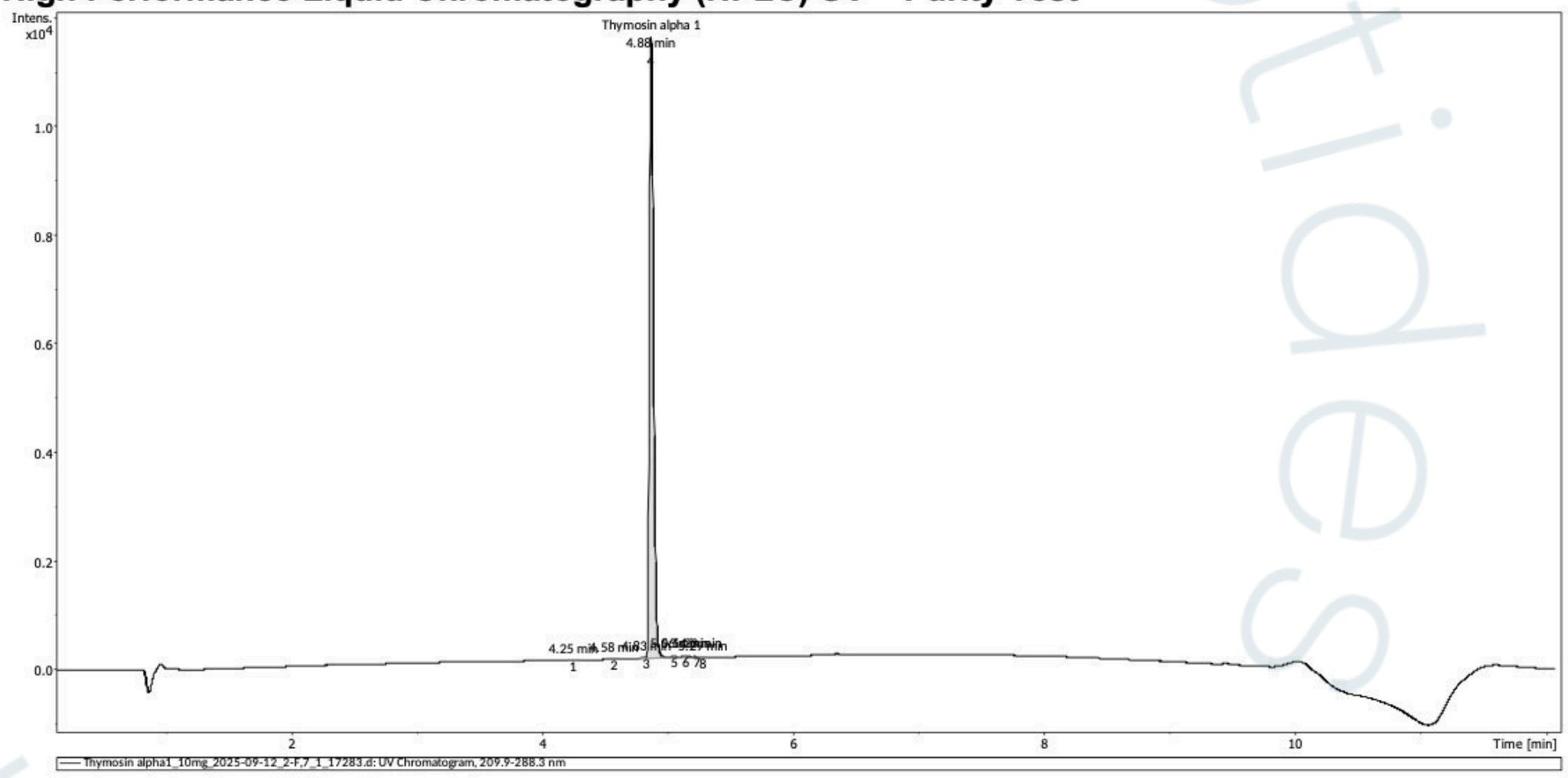
Thymosin alpha-I 10mg

Thymalfasin

Compound	: **Thymosin alpha 1**	**Client :**	**Tides Peptides**
Lot number	: **2025-09-12**		**www.tidespeptides.com**
Analysis date	: **2025-09-22**		
Purity %	: **99.40%**		
Method	: **HPLC-UV-MS**		

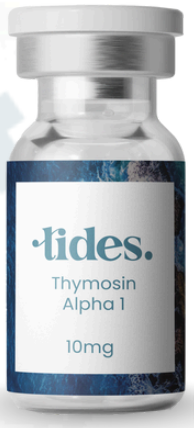
PubChem CID: 16130571
https://pubchem.ncbi.nlm.nih.gov/compound/16130571

High Performance Liquid Chromatography (HPLC) UV – Purity Test



PEAK LIST — Number of detected peaks: 8

	Time (min)	Area	%Area	
1	4.25	1.50E+01	0.06	
2	4.58	1.22E+01	0.05	
3	4.83	8.19E+00	0.03	
4	**4.88**	**2.69E+04**	**99.40**	**Thymosin alpha 1**
5	5.06	8.11E+01	0.30	
6	5.14	3.08E+01	0.11	
7	5.23	4.84E+00	0.02	
8	5.29	9.35E+00	0.03	



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

2025-09-29

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.

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

Thymosin alpha-I 10mg

Thymalfasin

PubChem CID: 16130571
https://pubchem.ncbi.nlm.nih.gov/compound/16130571

Mass Spectrometry (MS) – Identity Test

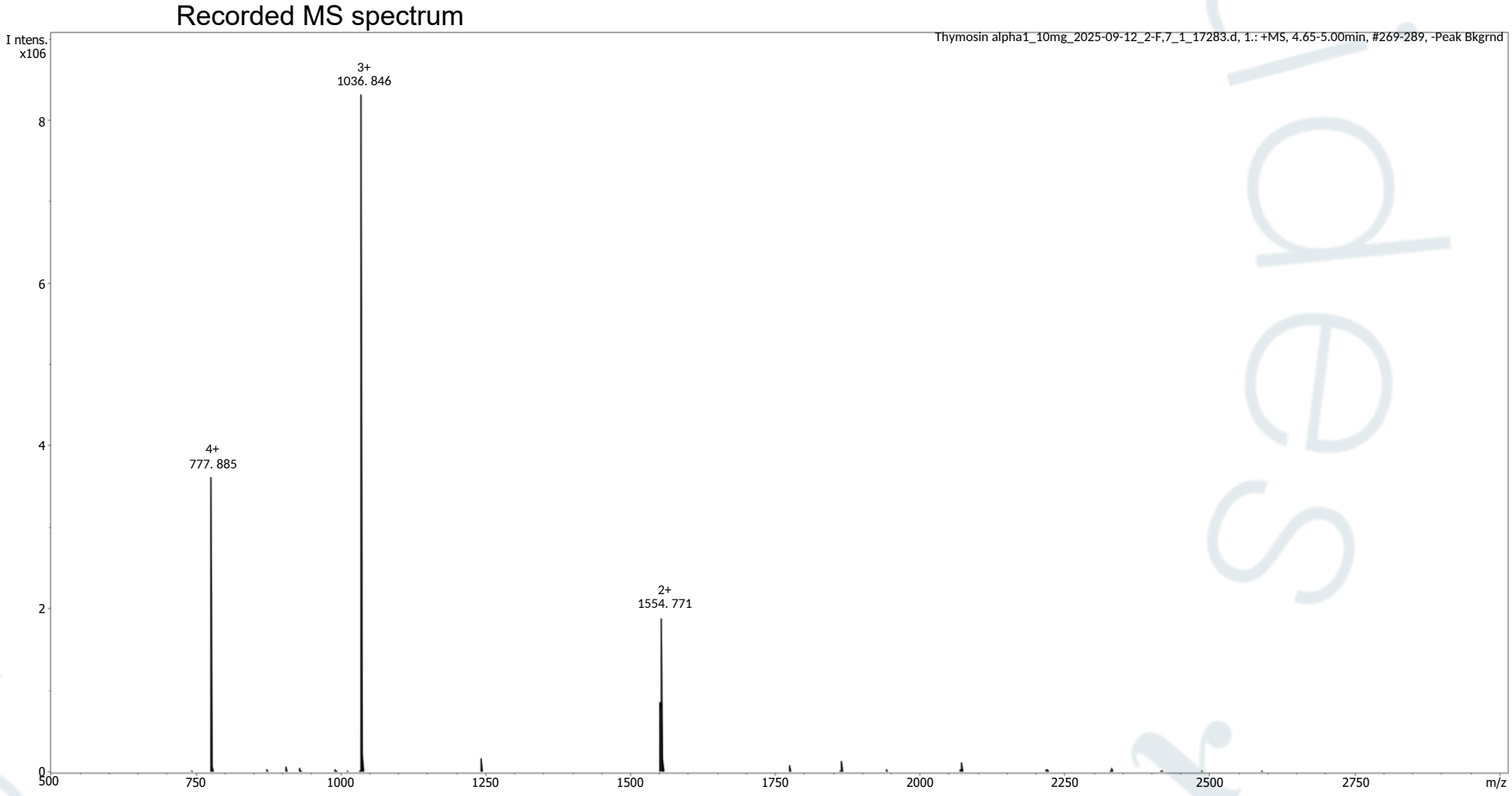
Identityconfirmed using HPLC-MS
Molecular weight calculated using monoisotopic m/z values from mass spectrum

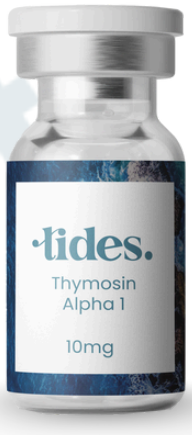
Expected monoisotopic mass :	3106.50	Da
Measured monoisotopic mass :	3106.54	Da

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





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

2025-09-29

tides™
peptides

CERTIFICATE OF ANALYSIS

Product Name	Thymosin alpha-1	CAS NO.	62304-98-7
Batch NO.	NCTA250620	Molecular formula	C129H215N33O55
Manufacture Date	June 20, 2025	Quantity	200g
Sequence	Ac-Ser-Asp-Ala-Ala-Val-Asp-Thr-Ser-Ser-Glu-Ile-Thr-Thr-Lys-Asp-Leu-Lys-Glu-Lys-Lys-Glu-Val-Val-Glu-Glu-Ala-Glu-Asn-OH		

TEST	**SPECIFICATION**	**RESULTS**
Appearance	White or off-white powder	Off-white powder
Purity(HPLC)	≥ 95%	99.1%
MW by MS	3108.3±1.0	3107.8
Assay	80.0%~120%	Conforms
TFA content	≤ 0.5%	3.0
Acetic acid content	≤ 10.0%	0.04%
Water	≤ 7.0%	5.2%
Soluble	Soluble in water	Clearly soluble
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.