MZ Biolabs
1635 E 18th St
Tucson, AZ 85719
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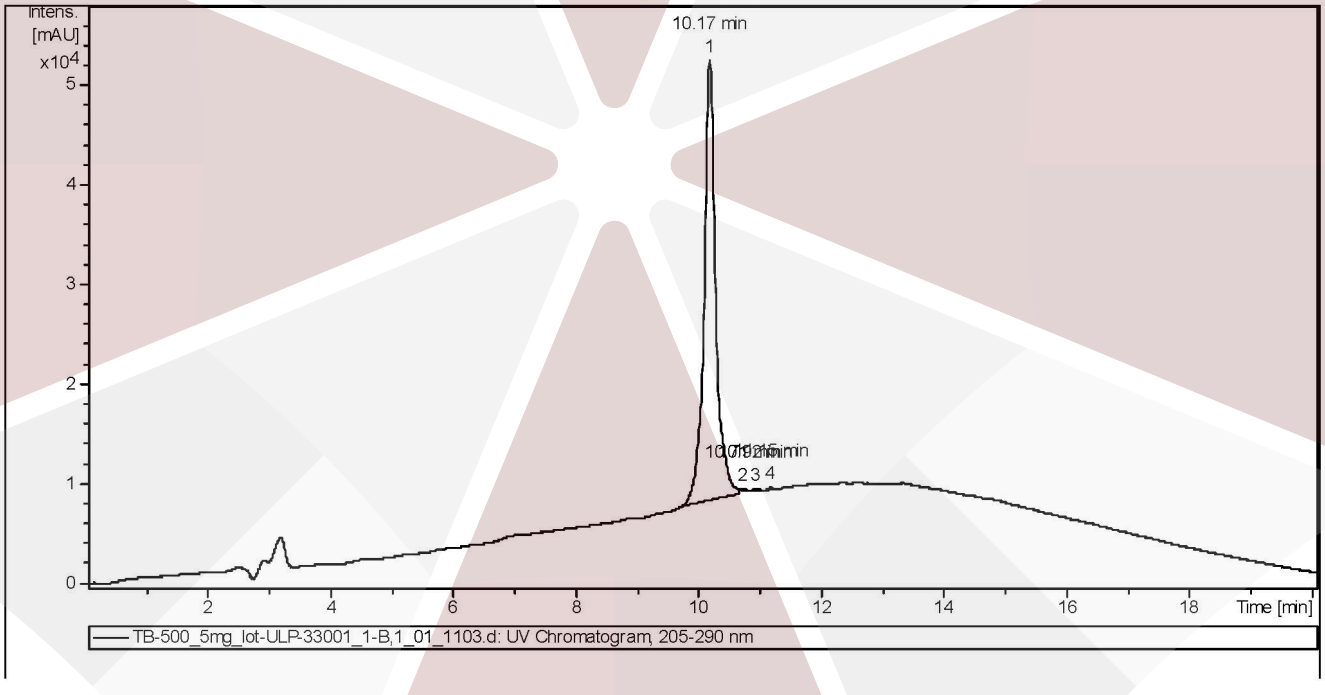
Certificate of Analysis

TB-500 5 mg

Thymosin beta-4

Compound	: **TB-500**	**Client :**	**UMBRELLA.us**
Lot number	: **ULP-33001**		**3280 E Hemisphere Loop**
Analysis date	: **2022-10-13**		**Tucson, Arizona 85706**
Purity %	: **99.6%**		
Method	: **Mass Spectrometry and UV**		

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



PEAK LIST — Number of detected peaks: 4

Time (min)	Area	%Area	
10.17	**5.84E+05**	**99.6**	**TB-500**
10.71	6.84E+02	0.1	
10.92	1.34E+03	0.2	
11.15	7.70E+02	0.1	

Peak identity confirmed by mass spectrum evaluation
Purity confirmed using UV detection
Expected mass : 4960.48 g
Measured mass : 4960.52 g
Molecular weight confirmed

Note: Injectable peptides 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.

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

2022-10-14