



MZ Biolabs  
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# Certificate of Analysis

## TB-500

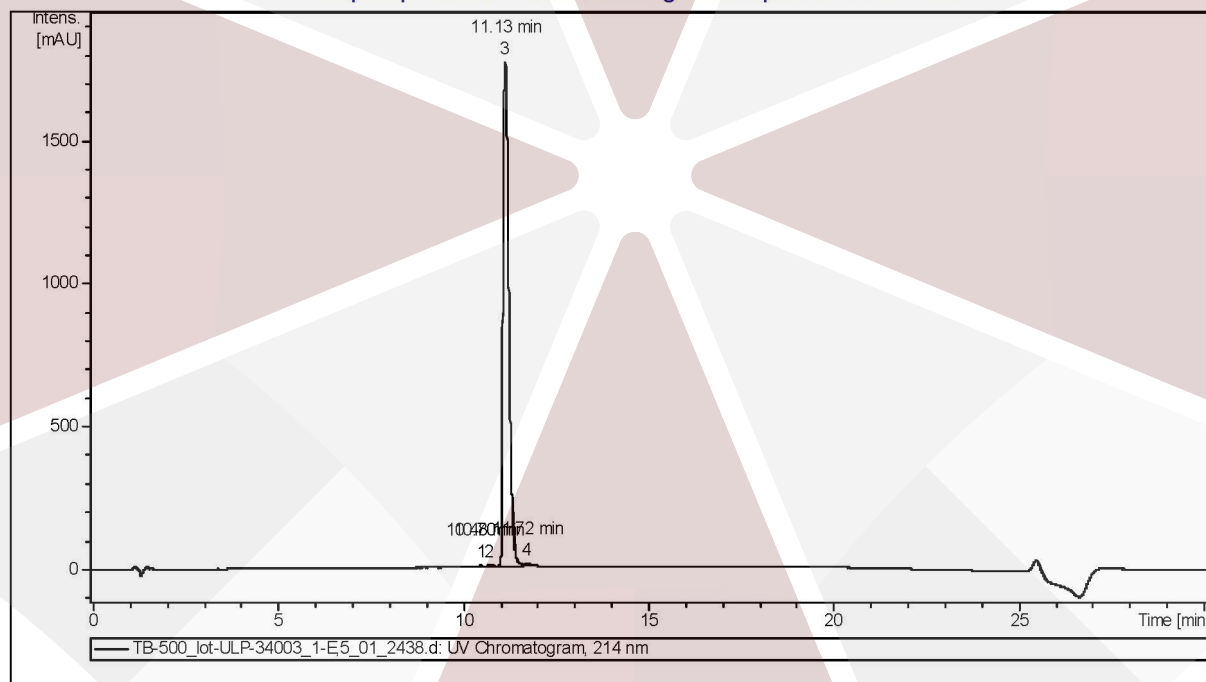
Thymosin beta-4

**Compound** : TB-500  
**Lot number** : ULP-34003  
**Analysis date** : 2023-04-04  
**Purity %** : 99.3%  
**Method** : Mass Spectrometry and UV

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

PubChem CID: 16132341

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



PEAK LIST	Number of detected peaks: 4		
Time (min)	Area	%Area	
10.48	4.04E+01	0.2	
10.70	4.21E+01	0.2	
<b>11.13</b>	<b>1.95E+04</b>	<b>99.3</b>	<b>TB-500</b>
11.72	5.08E+01	0.3	

Purity determined using UV detection  
Peak identity confirmed by mass spectrum evaluation  
Expected mass : 4960.48 g  
Measured mass : 4960.47 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  
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2023-04-04