



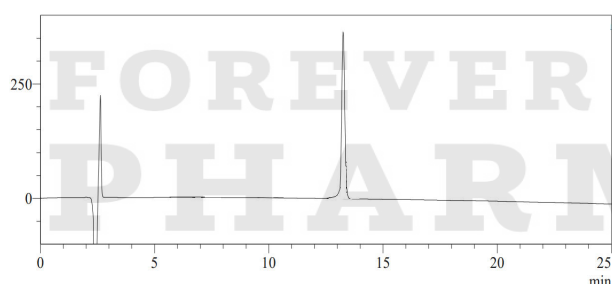
## CERTIFICATE OF ANALYSIS

### SAMPLE INFORMATION

<b>Product Name</b>	Thymosin Alpha-1 10mg
<b>Client Name/Lot No.</b>	Biopep LLC / Lot# 25093
<b>Sequence</b>	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
<b>Dissolution condition</b>	100% H2O
<b>Length</b>	28AA
<b>Molecular Weight</b>	3108.26 g/mol

### CHROMATOGRAM

mV



Peak #	Ret. Time	Area %
1	5.231	0.050
2	12.790	0.033
3	13.122	0.497
4	13.665	99.420

### TEST RESULTS

	Specifications	Results
<b>Strength</b>	10.00 mg	11.15 mg
<b>Appearance</b>	White to off white lyophilized powder	Conforms
<b>Purity</b>	≥98.0%	99.4%
<b>pH value</b>	6.0-8.0	6.5
<b>Impurity</b>	Single Impurity ≤1.0%	0.5%
	Total Impurity ≤2.0%	0.6%

### TEST PARAMETERS

<b>Pump A</b>	0.1% trifluoroacetic in 100% water
<b>Pump B</b>	0.1% trifluoroacetic in 100% acetonitrile
<b>Total Flow</b>	1.0ml/min
<b>Wavelength</b>	214nm
<b>Analytical Column Type</b>	Agilent ZORBAX StableBond 5µm C18 (4.6*250mm*5 µm)
<b>Dissolution Method</b>	100% H2O
<b>Injection Volume</b>	30uL

### CONCLUSION

One 3ml vial contained a white lyophilized powder with a translucent blue cap, silver crimp and is Lot# 25093.

The sample was analysed using Reverse Phase High Performance Liquid Chromatography (RP-HPLC) and determined to contain 99.4% Thymosin Alpha-1 (11.15 mg), and the rest are impurities of minor significance.

### CERTIFIED BY:

Dane Fredericksen  
Analytical Chemist  
04/07/2025



\*\*Verify the validity of test results by contacting support@foreveryoungpharmacy.com\*\*