

UHPLC CERTIFICATE OF ANALYSIS

SAMPLE INFORMATION

Sample received:

Product Name	Thymosin Alpha-1 Batch No. 97456
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
Dissolution Condition	100% UHPLC water with 0.1% Trifluoroacetic Acid (TFA). Dissolved sample picture included here. 
Molecular Weight	~3108.3 g/mol

STORAGE CONDITION: 0 °C

SAMPLE NOTES

One 3 ml clear glass vial with silver cap and silver aluminum crimp. Lyophilized powder present.



PUMP SETTINGS

Pump A	HPLC Grade water with 0.1% Formic Acid
Pump D	100% Acetonitrile with 0.1% Formic Acid
Column Usage	Agilent Zorbax 300SB-C18, C18, 2.1 × 100 mm, 1.7 µm, 300 Å
Gradient	25–60% ACN over 20 minutes
Pump Settings	0.5 mL/min
Injection Volume:	10 µL
Temperature	35 °C

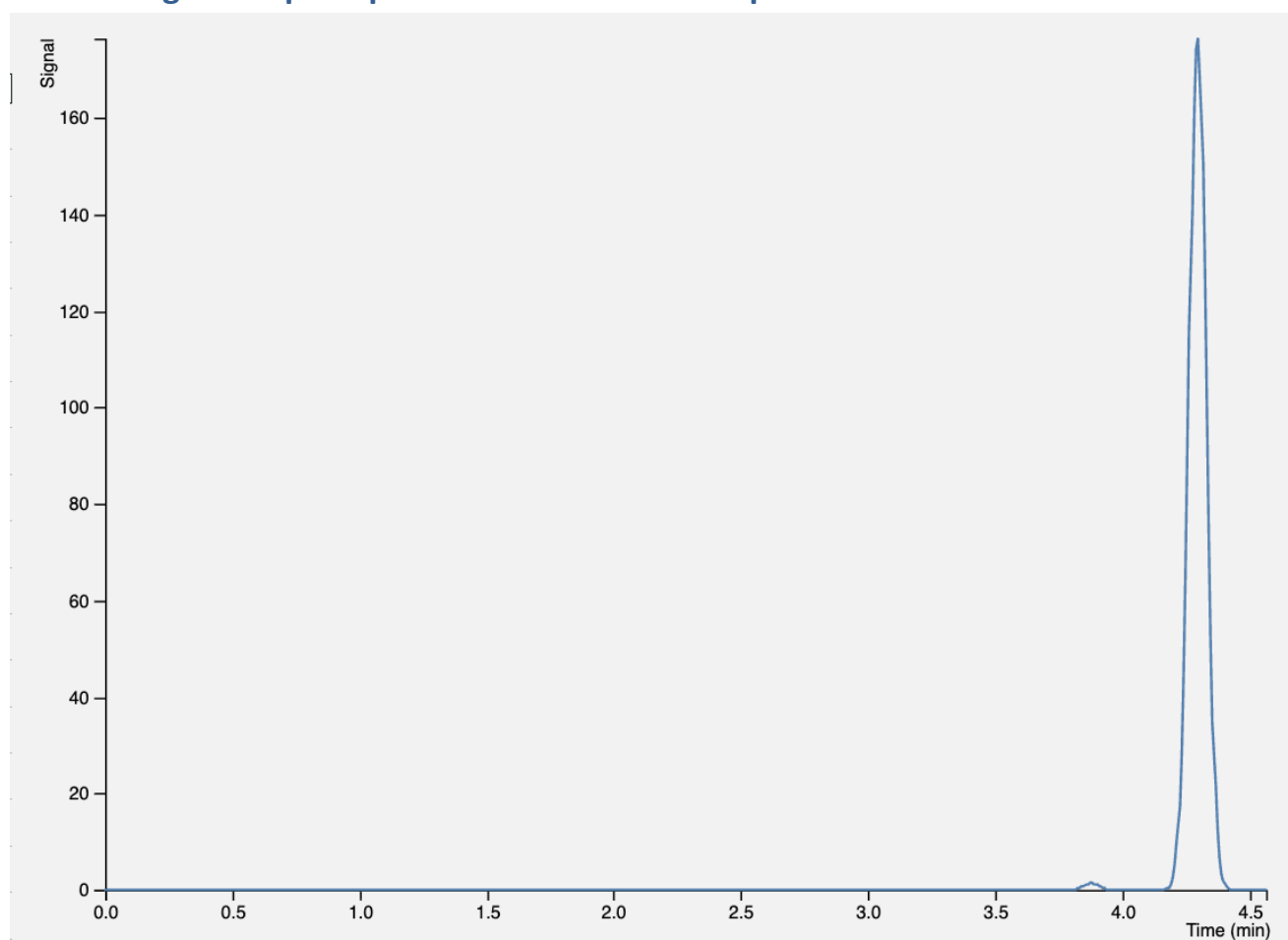
PURITY RESULT

Purity is **99.61%**

Product weight extrapolation: 10.1mg

Total impurity 0.39% (trace inert solvents and minor unidentified peaks; no significant related substances or degradation products detected above 0.1%).

Chromatogram Export: please note that x axis represents elution window.



CONCLUSION

This sample was analyzed on a Thermo Ultimate U3000 HPLC stack using reverse-phase high-performance liquid chromatography and determined to contain **99.61% Thymosin Alpha-1**, with the remainder being impurities of minor significance.

CERTIFICATION

Certified by: Jonathan Barber

Title: Analytical Chemist

Date: 5 March 2026



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