


UHPLC CERTIFICATE OF ANALYSIS

SAMPLE INFORMATION

Sample received:

Product Name	Thymalin 10mg Batch No. 84962
Sequence	Glu-Asp-Lys
Dissolution Condition	<p>100% UHPLC water with 0.1% Trifluoroacetic Acid (TFA). Dissolved sample picture included here.</p> 
Molecular Weight	~800 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	100% H2O with .1% Trifluoroacetic Acid
Pump D	100% Acetonitrile.
Column Usage	Agilent Zorbax 300SB-C18, 2.1 x 100 mm, 1.7 µm, 300 Å
Gradient	<ul style="list-style-type: none">- 5% D hold (0–0.5 min)- 5 → 35% D over 8–10 min (≈3.0–3.75% D/min)- 35 → 50% D over 3 min (flush hydrophobic impurities)- Hold 50% D (2 min)- Re-equilibrate to 5% D over 3 min- Total run time: ~17 min.
Pump Settings	0.6 mL/min
Injection Volume:	10 µL
Temperature	30 °C

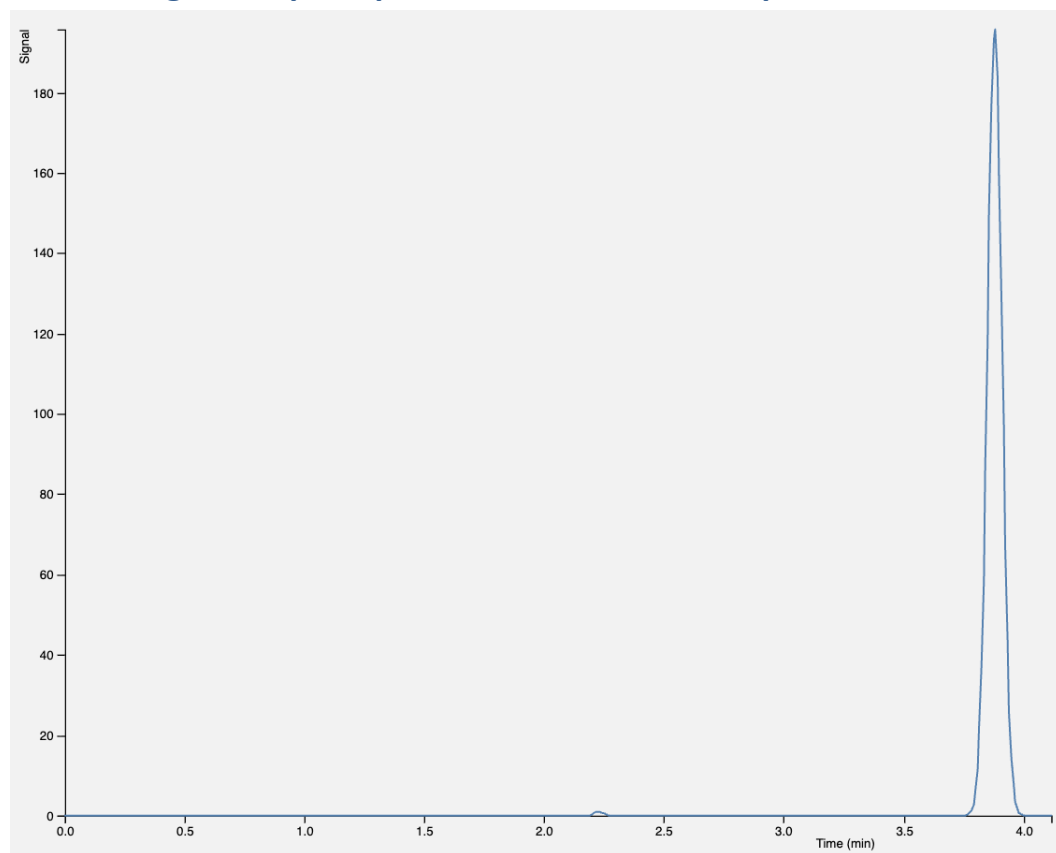
PURITY RESULT

Purity is **99.63%**

Product weight extrapolation: 10.8mg

Total impurity 0.37% (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 **99.63% Thymalin** with the remainder being impurities of minor significance.

CERTIFICATION

Certified by: Jonathan Barber

Title: Analytical Chemist

Date: 15 September 2025



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