


## UHPLC CERTIFICATE OF ANALYSIS

### SAMPLE INFORMATION

Sample received:

<b>Product Name</b>	Thymalin 10mg Batch No. 84963
<b>Sequence</b>	Glu-Asp-Lys
<b>Dissolution Condition</b>	100% UHPLC water with 0.1% Trifluoroacetic Acid (TFA). Dissolved sample picture included here. 
<b>Molecular Weight</b>	~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

<b>Pump A</b>	100% H2O with .1% Trifluoroacetic Acid
<b>Pump D</b>	100% Acetonitrile.
<b>Column Usage</b>	Agilent Zorbax 300SB-C18, 2.1 x 100 mm, 1.7 $\mu$ m, 300 Å
<b>Gradient</b>	- 5% D hold (0–0.5 min) - 5 $\rightarrow$ 35% D over 8–10 min ( $\approx$ 3.0–3.75% D/min) - 35 $\rightarrow$ 50% D over 3 min (flush hydrophobic impurities) - Hold 50% D (2 min) - Re-equilibrate to 5% D over 3 min - Total run time: $\sim$ 17 min.
<b>Pump Settings</b>	0.6 mL/min
<b>Injection Volume:</b>	10 $\mu$ L
<b>Temperature</b>	30 $^{\circ}$ C

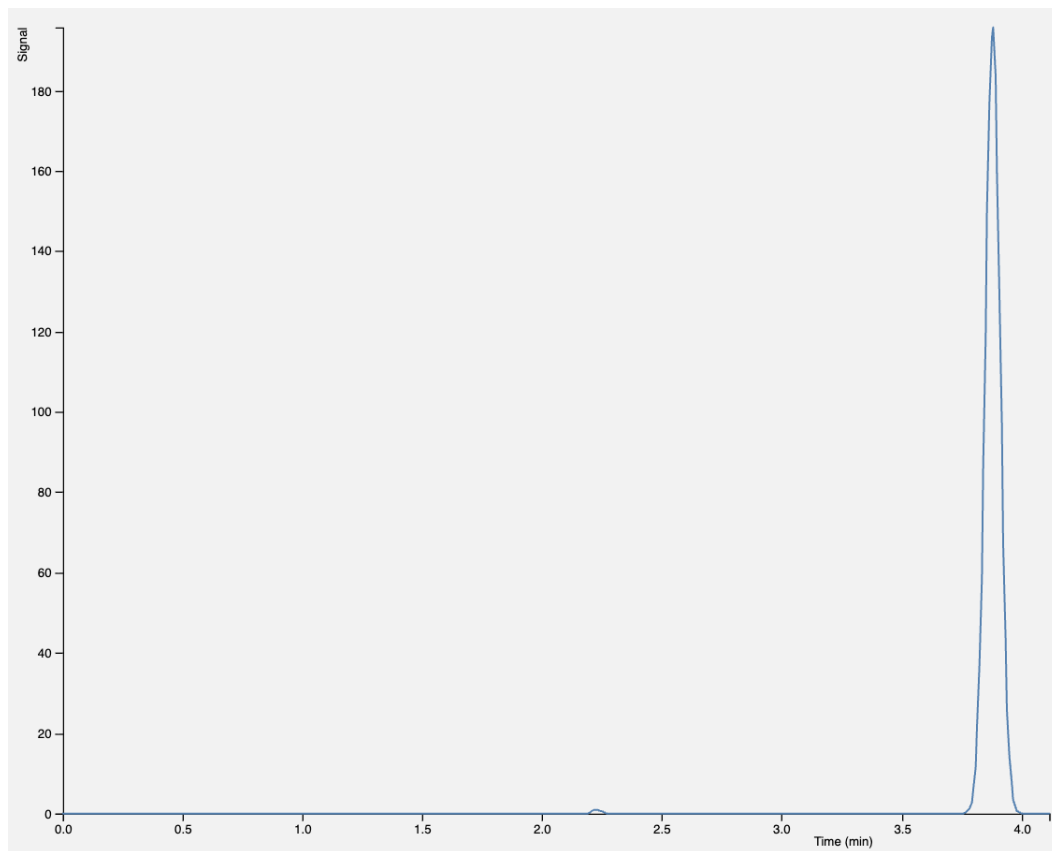
## PURITY RESULT

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:** 18 December 2025



Trulab Peptides [www.trulabpeptides.com](http://www.trulabpeptides.com) | **Phone:** 872-239-6582  
**Address:** 15017 North Dale Mabry Highway #1121 Tampa, FL 33618 United States