


## UHPLC CERTIFICATE OF ANALYSIS

### SAMPLE INFORMATION

Sample received:

<b>Product Name</b>	TB-500 5mg Batch No. 85712
<b>Sequence</b>	Ac-Ser-Asp-Lys-Pro-Asp-Met-Ala-Glu-Ile-Glu-Lys-Phe-Asp-Lys-Ser-Lys-Leu-Lys-Lys-ThrGlu-Thr-Gln-Glu-Lys-Asn-Pro-Leu-Pro-Ser-Lys-Glu-Thr-Ile-Glu-Gln-Glu-Lys-Glu-Lys-LysLys-Asn-Lys-Lys-Thr-Glu-Thr-Val-Glu-Lys-Thr-Gln-Glu-Lys-Ala-Gly-Glu-Ile-Glu-Lys-OH
<b>Dissolution Condition</b>	100% UHPLC water with 0.1% Trifluoroacetic Acid (TFA). Dissolved sample picture included here. 
<b>Molecular Weight</b>	~4964 g/mol

**STORAGE CONDITION:** 0 °C

### SAMPLE NOTES

One 3 ml clear glass vial with blue 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	- 5% D hold (0–1.0 min) - 5 → 65% D over 18 min (≈3.3% D/min) - Hold 65% D (3 min) - Re-equilibrate to 5% D over 3 min - Total run time: ~25 min.
Pump Settings	0.6 mL/min
Injection Volume:	10 µL
Temperature	35 °C

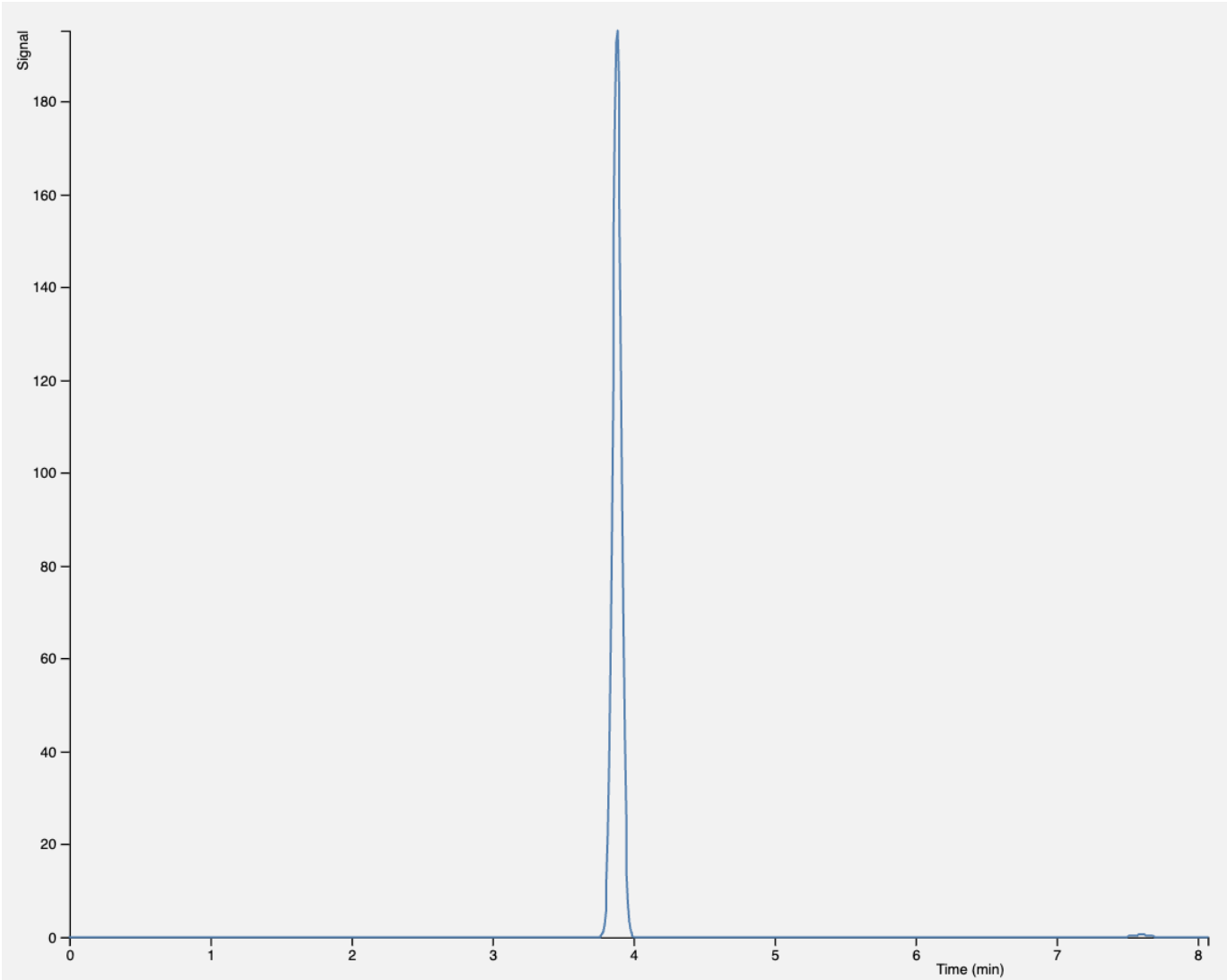
PURITY RESULT

Purity is 99.49%

Product weight extrapolation: 5.8mg

Total impurity 0.51% (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 **99.49% TB-500**, with the remainder being impurities of minor significance.

## CERTIFICATION

**Certified by:** Jonathan Barber

**Title:** Analytical Chemist

**Date:** 9 September 2025



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