

UHPLC CERTIFICATE OF ANALYSIS

SAMPLE INFORMATION

Sample received:

Product Name	Tesamorelin Ipamorelin Blend 5mg/5mg No. 21231
Sequence	Tesamorelin (N-(trans-3-hexenoyl)-Tyr-Ala-Asp-...-Ala-Arg-Leu-NH ₂ , 44 aa; MW ≈ 5135.9 Da) + Ipamorelin (Aib-His-D-2-Nal-D-Phe-Lys-NH ₂ , 5 aa; MW ≈ 711.8 Da)
Dissolution Condition	100% UHPLC water with 0.1% Trifluoroacetic Acid (TFA). Dissolved sample picture included here. 
Molecular Weight	~2924 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	- 5% D hold (0–0.5 min) - 5 → 45% D over 8.0 min - 45 → 70% D over 10.0 min - Hold 70% D (2.5 min) - Re-equilibrate to 5% D over 3.0 min - Total run time ≈ 24 min
Pump Settings	0.3 mL/min
Injection Volume:	1-3 µL
Temperature	40 °C

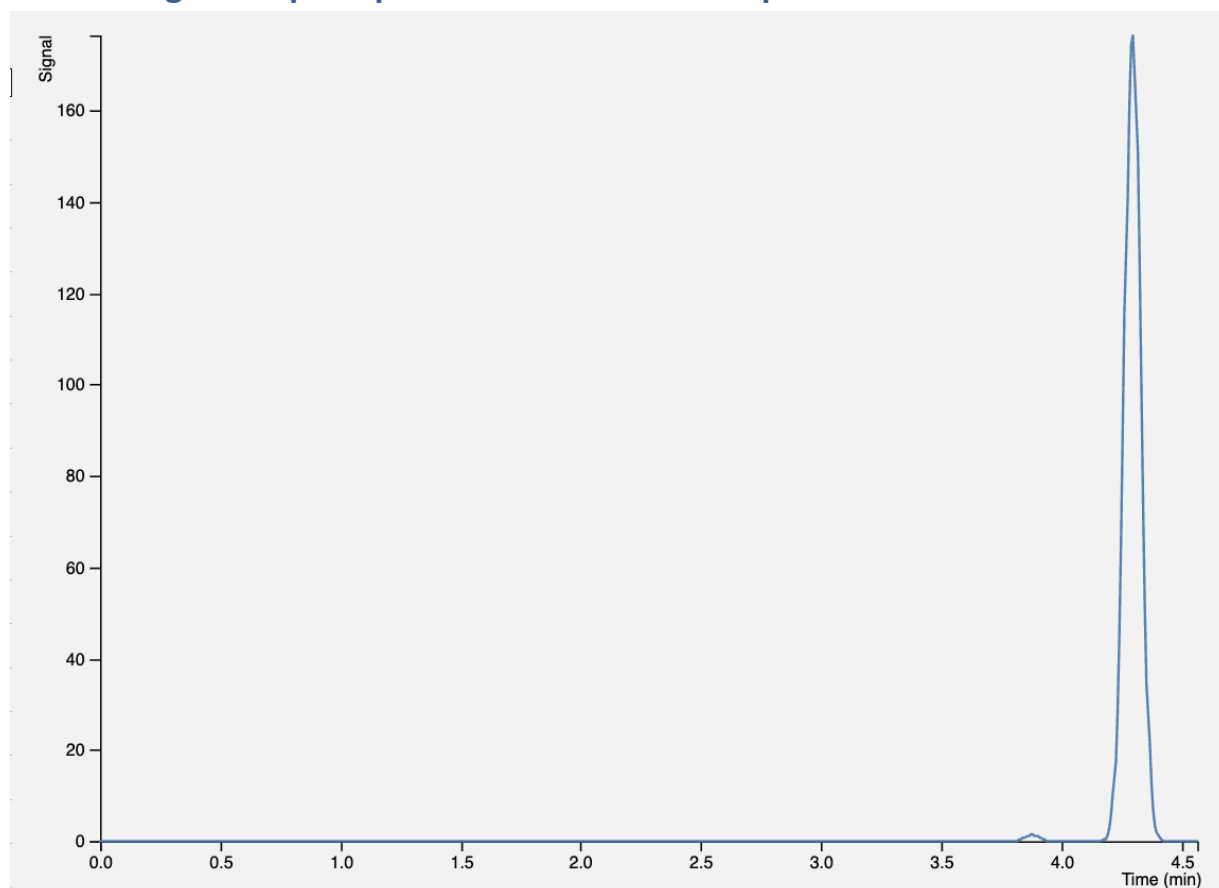
PURITY RESULT

Purity is **99.43%**

Product weight extrapolation: 12.6mg

Total impurity 0.57% (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 **99.43% Tesamorelin/Ipamorelin Blend**, with the remainder being impurities of minor significance.

CERTIFICATION

Certified by: Jonathan Barber

Title: Analytical Chemist

Date: 4 October 2025



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