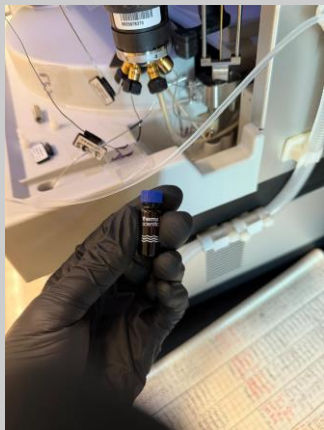


## UHPLC CERTIFICATE OF ANALYSIS

### SAMPLE INFORMATION

Sample received:

<b>Product Name</b>	Tirzepatide Batch No. 90482
<b>Sequence</b>	Tyr-Aib-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Val-Ser-Ser-Tyr-Leu-Val-Arg-Lys-Gln-Gly-Ala-Pro-Ser-Ser-Tyr-Leu-Glu-Gly-Gln-Ala-Ala-Gln-Leu-Ala-Val-Leu-Ser-Ser-Ala-Cys(C20 diacid)
<b>Dissolution Condition</b>	100% UHPLC water with 0.1% Trifluoroacetic Acid (TFA). Dissolved sample picture included here. 
<b>Molecular Weight</b>	~4,814.577 g/mol

**STORAGE CONDITION:** 0 °C

### SAMPLE NOTES

One 3 ml clear glass vial with white 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"><li>- 10% D hold (0–1 min)</li><li>- 10 → 55% D over 18 min (≈2.5% D/min)</li><li>- Hold 55% D (3 min)</li><li>- Re-equilibrate to 10% D over 3.5 min</li><li>- Total run time: ~25.5 min.</li></ul>
Pump Settings	0.6 mL/min
Injection Volume:	10 µL
Temperature	40 °C

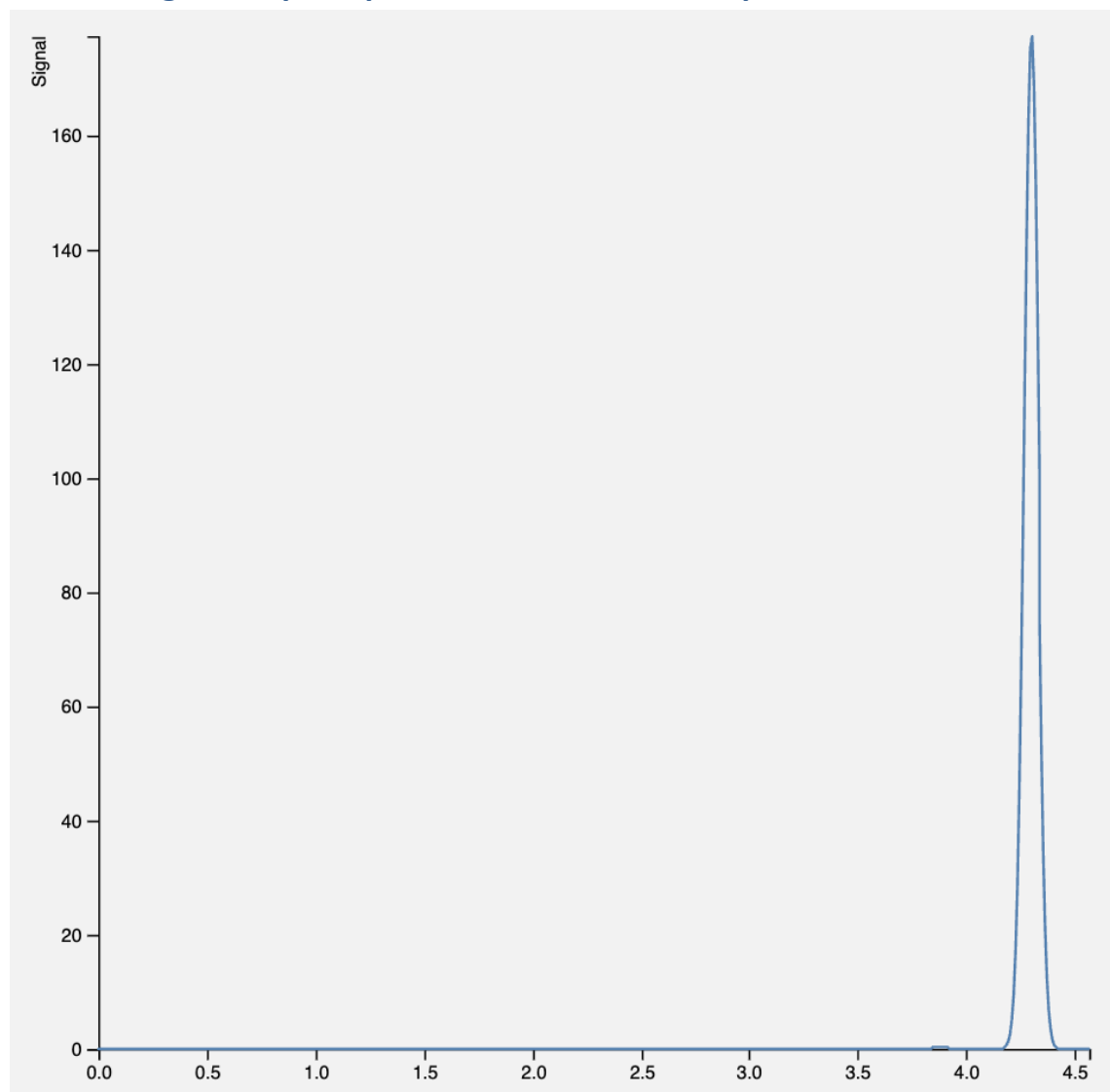
## PURITY RESULT

Purity is **99.82%**

**Product weight extrapolation: 43.2mg**

Total impurity 0.18% (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 **99.82% Tirzepatide**, with the remainder being impurities of minor significance.

## CERTIFICATION

**Certified by:** Jonathan Barber

**Title:** Analytical Chemist

**Date:** 9 September 2025



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