Email:hello@trulabpeptides.com

UHPLC CERTIFICATE OF ANALYSIS

SAMPLE INFORMATION

Sample received:

Product Name	MOTS-c Batch No. 66873
Sequence	H-Met-Arg-Trp-Gln-Glu-Met-Gly-Tyr-Ile-Phe-Tyr-Pro-Arg-Lys-Leu-Arg-OH
Dissolution Condition	100% UHPLC water with 0.1% Trifluoroacetic Acid (TFA). Dissolved sample picture included here. 
Molecular Weight	~2179.5 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% H20 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 → 30% D over 7 min - 30 → 40% D over 3 min - Hold 40% D (2 min) - Re-equilibrate to 5% D over 3.5 min - Total run time: ~17 min.
Pump Settings	0.3 mL/min
Injection Volume:	10 µL
Temperature	30 °C

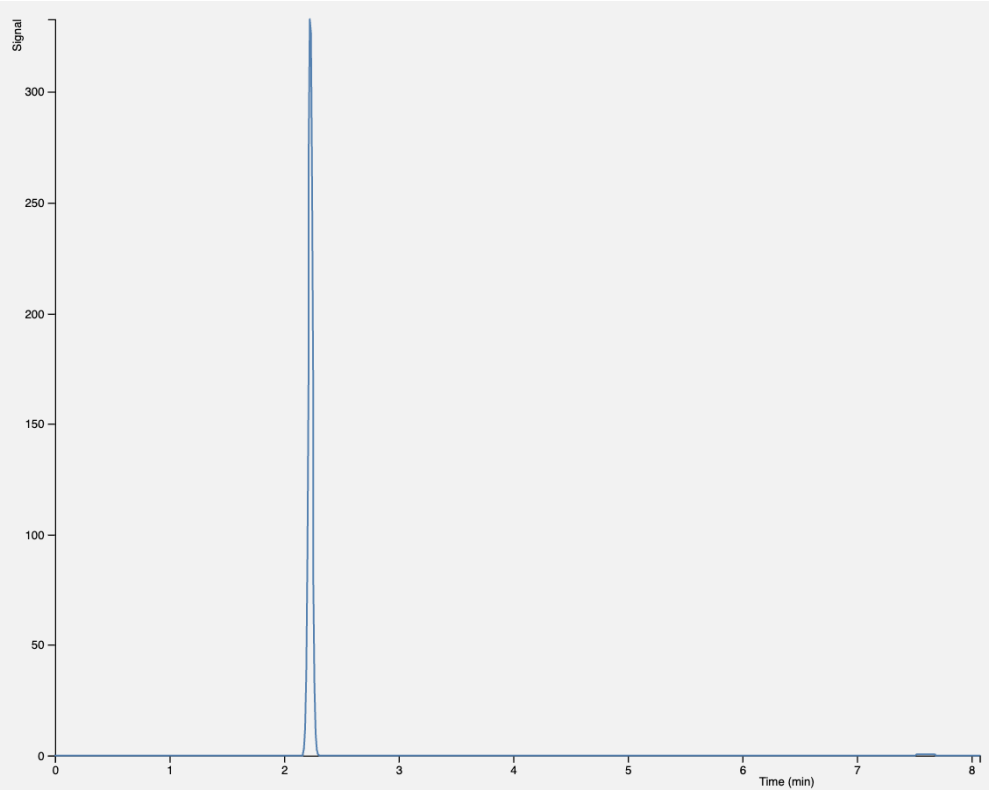
PURITY RESULT

Purity is **99.51%**

Product weight extrapolation: 10.8mg

Total impurity 0.49% (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 **99.51% MOTS-c,** with the remainder being impurities of minor significance.

CERTIFICATION

Certified by: Jonathan Barber
Title: Analytical Chemist
Date: 2 March 2026

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