**Email:**hello@trulabpeptides.com

# UHPLC CERTIFICATE OF ANALYSIS

## SAMPLE INFORMATION

Sample received:

| | |
|---|---|
| **Product Name** | MOTS-c 10mg Batch No. 66872 |
| **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)<br>- 5 → 30% D over 7 min<br>- 30 → 40% D over 3 min<br>- Hold 40% D (2 min)<br>- Re-equilibrate to 5% D over 3.5 min<br>- Total run time: ~17 min. |
| **Pump Settings** | 0.3 mL/min |
| **Injection Volume:** | 10 µL |
| **Temperature** | 30 °C |

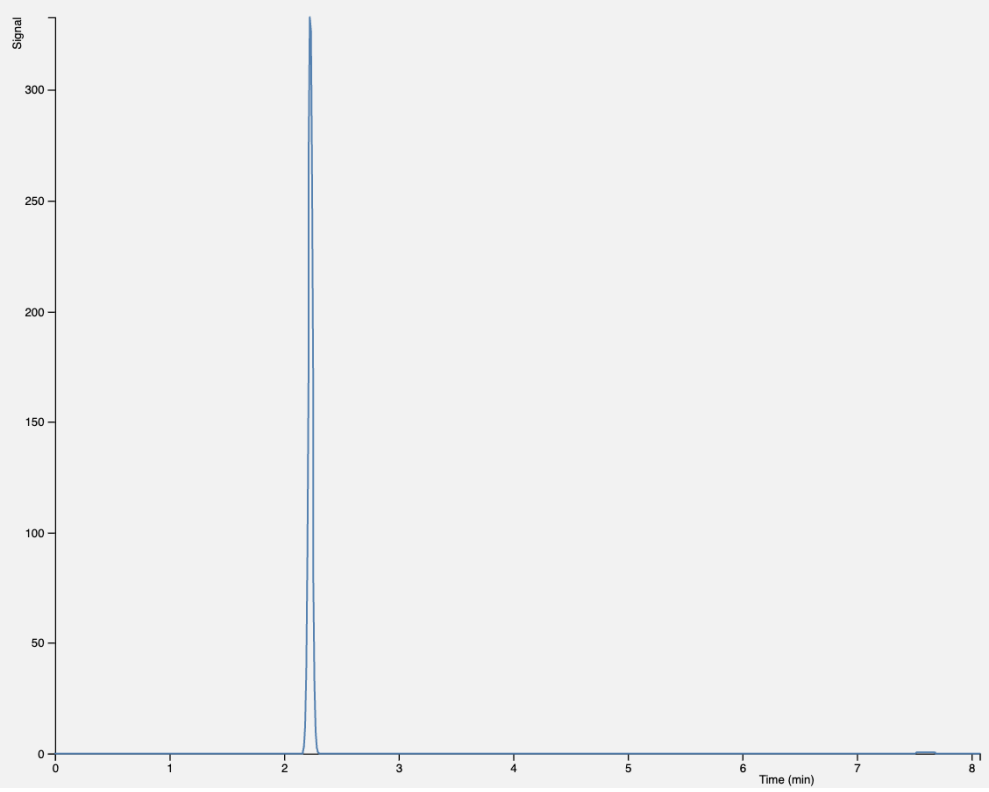
## PURITY RESULT

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:** 15 September 2025

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