


## UHPLC CERTIFICATE OF ANALYSIS

### SAMPLE INFORMATION

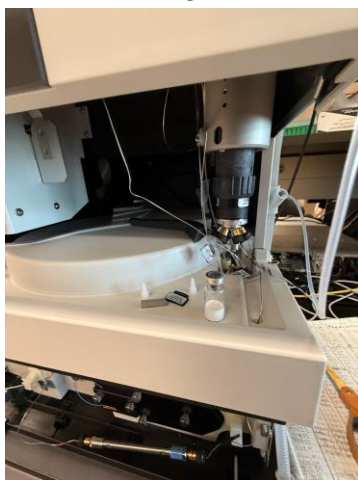
Sample received:

<b>Product Name</b>	DSIP 10mg Batch No. 64294
<b>Sequence</b>	Trp-Ala-Gly-Gly-Asp-Ala-Ser-Gly-Glu (W-A-G-G-D-A-S-G-E)
<b>Dissolution Condition</b>	<p>100% UHPLC water with 0.1% Trifluoroacetic Acid (TFA). Dissolved sample picture included here.</p> 
<b>Molecular Weight</b>	~848.8 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

<b>Pump A</b>	100% H2O with .1% Trifluoroacetic Acid
<b>Pump D</b>	100% Acetonitrile.
<b>Column Usage</b>	Agilent Zorbax 300SB-C18, 2.1 x 100 mm, 1.7 µm, 300 Å
<b>Gradient</b>	<ul style="list-style-type: none"><li>- 5% D hold (0–0.5 min)</li><li>- 5 → 30% D over 8 min (≈3.1% D/min)</li><li>- 30 → 45% D over 4 min (≈3.75% D/min)</li><li>- Hold 45% D (2 min)</li><li>- Re-equilibrate to 5% D over 3 min</li><li>- Total run time ≈ 18–19 min</li></ul>
<b>Pump Settings</b>	0.6 mL/min
<b>Injection Volume:</b>	10 µL
<b>Temperature</b>	30 °C

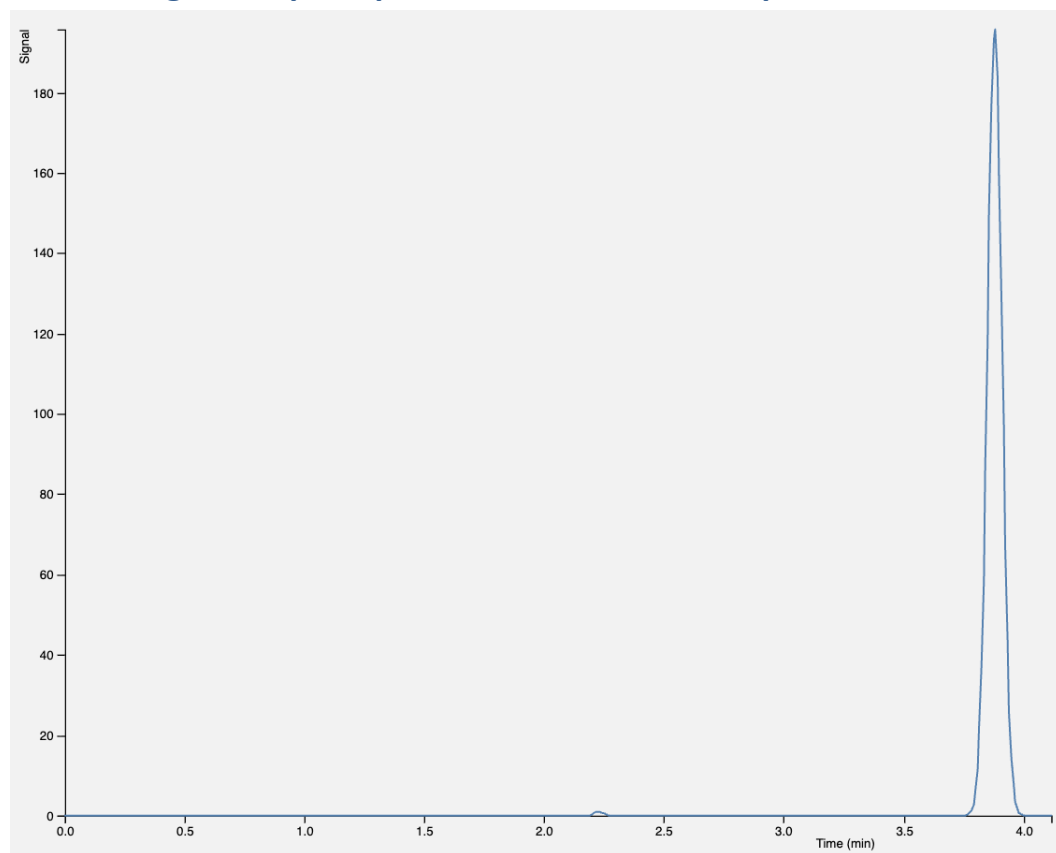
## PURITY RESULT

Purity is **99.71%**

**Product weight extrapolation: 10.8mg**

Total impurity 0.39% (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 **99.71% DSIP** with the remainder being impurities of minor significance.

## CERTIFICATION

**Certified by:** Jonathan Barber

**Title:** Analytical Chemist

**Date:** 13 September 2025



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