

CERTIFICATE OF ANALYSIS

SAMPLE INFORMATION

Product Name	Delta-Sleep-Inducing Peptide (DSIP) 10 mg
Sequence	Trp-Ala-Gly-Gly-Asp-Ala-Ser-Gly-Glu (W-A-G-G-D-A-S-G-E)
Dissolution Condition	100% H ₂ O
Molecular Weight	~848.8 g/mol

CHROMATOGRAM: Available on Request

STORAGE CONDITION: 0 °C

PUMP SETTINGS

Pump A	HPLC grade water with 0.1% formic acid
Pump D	100% acetonitrile with 0.1% formic acid
Column Usage	Agilent ZORBAX SB-C18 (C18), 2.1 × 100 mm, 1.7 µm, 300 Å
Gradient	15–65% ACN over 20 minutes
Pump Settings	0.5 mL/min
Injection Volume:	10µl
Temperature	30 °C

PURITY RESULT

Purity is **99.7%**

Total impurity 0.3% of inert solvents; no significant related substances or degradation products detected above 0.1%

CONCLUSION

One 3 ml vial contained a white lyophilized powder with a silver crimp and is labeled batch **#64294**.

Sample strength: **10mg**

Sample weight in grams: **9.8**

This sample was analyzed on a Thermo Ulitimate U3000 HPLC stack using reverse phased high performance liquid chromatography and determined to contain **99.7% DSIP 10 mg**, with the rest being impurities of minor significance

CERTIFICATION

Certified by: Jonathan Barber

Title: Analytical Chemist

Date: 15 August 2025

