

CERTIFICATE OF ANALYSIS

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SAMPLE IDENTIFICATION

Sample Name	Batch Number	Date Published	Lab Reference
DSIP 10 mg	2026291	05/14/2026	QC-DSIP-10mg-291

RESULTS — PEPTIDE IDENTITY, CONTENT & PURITY

Parameter	Result	Unit	Uncertainty	Method / Note
DSIP Identification (MS)	Confirmed (990)	—	± 20	ESI-MS Spectrum
DSIP Assay (Content)	10.16	mg	± 0.05	HPLC External Standard
DSIP Identification (RT)	0.992	—	± 0.005	HPLC Retention Time
DSIP Purity (HPLC)	99.33	%	± 0.44	Area Normalization @ 280 nm

ADDITIONAL TESTS

Test	Result	Unit	Limit	Method
Total Aerobic Microbial Count	Not detected	CFU/g	≥ 1000	USP <61>
Total Yeast and Mold Count	Not detected	CFU/g	≥ 100	USP <61>
Bacterial Endotoxin	< 0.001	EU/mg	> 0.5	USP <85> Chromogenic LAL
Heavy Metals (As, Cd, Pb, etc.)	Not detected	ppm	Various	Elemental Impurities Screening

CONCLUSION: All tested parameters meet the specifications. The batch is approved for research use only.

ANALYTICAL DATA — PEAK TABLE (HPLC)

The following peak table confirms identity and high purity of the batch.

Detector A Channel 2 280 nm

Peak	Ret. Time (min)	Conc.	Unit	Area %
1 (Main)	6.607	10.160	mg	99.317
2	6.888	0.000	—	0.683
Total				100.000

METHOD SPECIFICATION — Content & Purity Assessment

Instrumentation

Module	Name	Serial Number
System Controller	SCL-10ADvp	SN-2026-0147
Degassing Unit	DGU-14A	SN-2026-0082
Pump	LC-10ADvp	SN-2026-0094
Autosampler	SIL-10ADvp	SN-2026-0514
Column Thermostat	CTO-10ACvp	SN-2026-0371
Detector	SPD-10ADvp	SN-2026-0338

Chromatographic Conditions

Parameter	Value
Eluent A	1% TFA in Water (HPLC, Gradient Grade)
Eluent B	1% TFA in Acetonitrile (HPLC, Gradient Grade)
Flow Rate	1.0 mL/min
Injection Volume	2.0 µL
Column Temperature	35°C
Column	Avantor ACE UltraCore C18, 150×3.0 mm, 3.5 µm
Detection Wavelength	280 nm

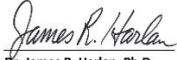
Gradient Program

Time (min)	A [%]	B [%]
2	99	1
25	5	95
28	5	95
32	end	

Sample Preparation

Whole amount of container was dissolved in 2 mL of water (HPLC, Gradient Grade). Aliquote part of 1 mL was dispensed into HPLC vial for analysis.

AUTHORIZATION & APPROVAL

Tested & Analyzed by:  QUALITY CONTROL	Approved by (QA):  Dr. James R. Harlan, Ph.D. Quality Assurance Director
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DISCLAIMER: This document is for research purposes only. Not for human or veterinary use. Results relate only to the sample tested. Store at -20°C in a dry, dark place.

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