

CERTIFICATE OF ANALYSIS

COA #: **SD20260829_009_DSIP10**

SAMPLE INFORMATION

Client	Zentra Brands Limited	Accession #	SD20260829_009
Compound	DSIP	Date Received	08/28/2026
Molecular Formula	C35H48N10O15	Date Reported	09/01/2026
Appearance	White lyophilized powder	Labeled Quantity	10mg
Sample Form	Lyophilized Vial	Lot / Batch #	ZC0025
Storage	Room Temp	CAS Number	62568-57-4
Cap Color	Green		



All Chemical Analysis Performed by LC-MS/MS

ANALYTICAL RESULTS

Test / Analysis	Method	Specification	Result	Status
Identity (Mass Confirmation)	LC-MS/MS	Matches reference mass	DSIP	Pass
Purity	LC-MS/MS	≥ 95.0%	99.384 %	Pass
Net Peptide Content	LC-MS/MS	Report value	11.02 mg	Pass
Observed Molecular Mass	LC-MS	Within ± 1.0 Da	425 [M+2H] ²	Pass
Theoretical Molecular Mass	Reference	—	848.82 Da	Pass
Related Substances / Impurities	LC-MS/MS	Report value	Not Detected	Pass
Residual Solvents	LC-MS/MS	Report value	Not Detected	Pass

John Humes, MS. **John Humes, MS.**
Analyzed by · Laboratory Analyst · 09/01/2026

Chetan Soni, PhD. **Chetan Soni, PhD.**
Approved by · Laboratory Director · 09/01/2026

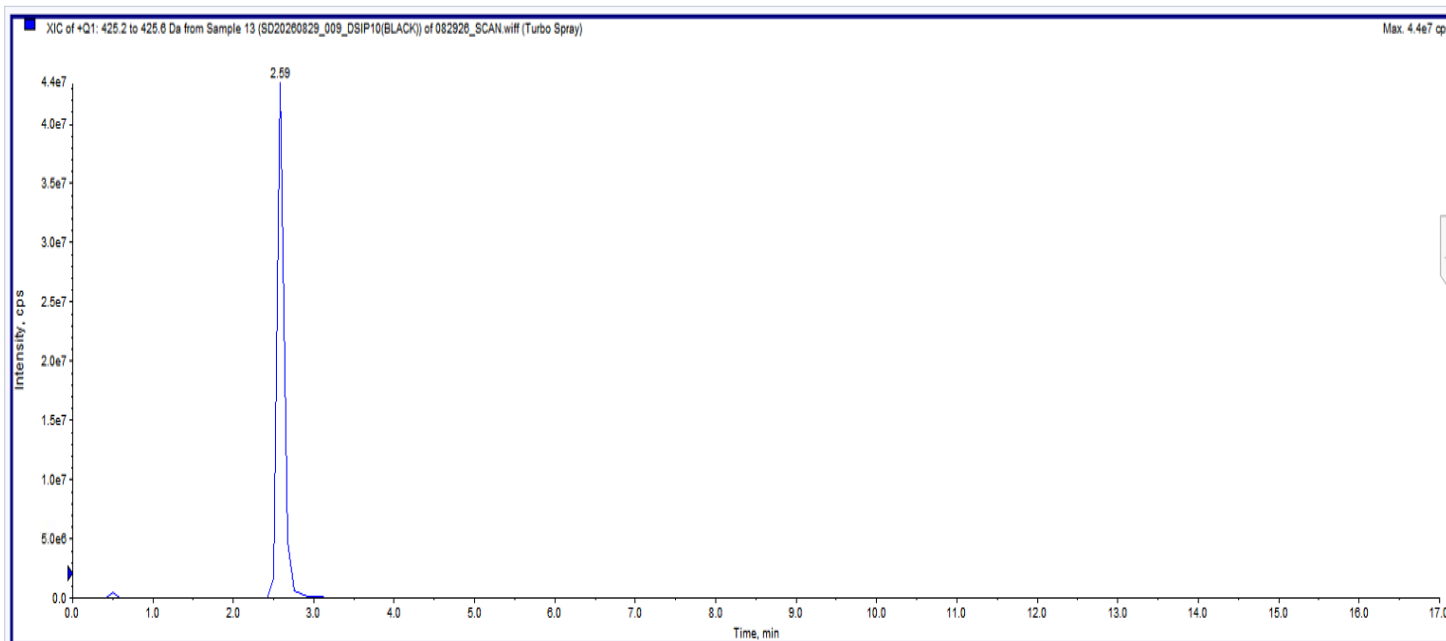
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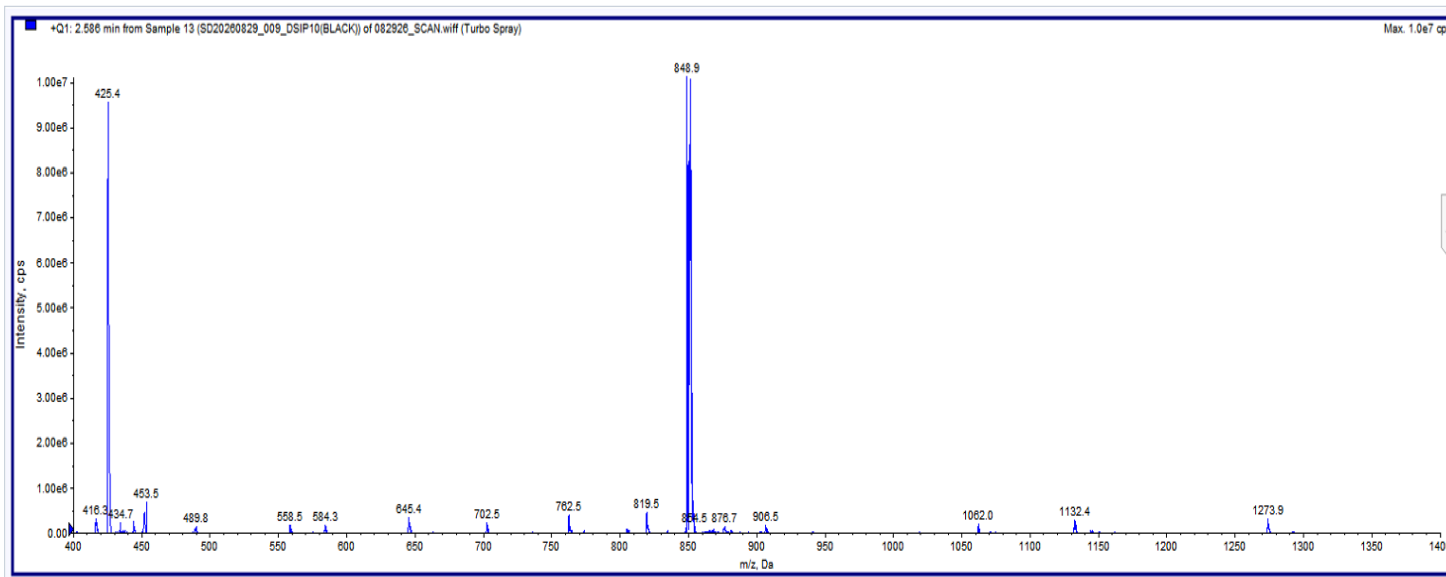
ANALYTICAL DATA

COA #: SD20260829_009_DSIP10

CHROMATOGRAM



MASS SPECTRUM (LC-MS)



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ANALYTICAL INTERPRETATION

Chromatogram

Retention Time Match

Mass Spectrum (LC-MS)

Analyte: DSIP (Delta Sleep-Inducing Peptide)

Sample ID: SD20260829_009_DSIP10 (BLACK)

Method (Identity): LC-MS, positive-mode Q1 full scan, TurboSpray ionization

Retention time: 2.586min

The Q1 full-scan spectrum at 2.586min shows a dominant ion at $m/z \approx 425.4$, consistent with the $[M+2H]^2$ ion of DSIP (nonapeptide, MW $\approx$ 850Da). Additional peaks at $m/z \approx 416.3$ and 434.7 correspond to related charge/adduct species, while a higher-mass peak at $m/z \approx 848.9$ is consistent with the $[M+H]^+$ ion. The observed charge-state distribution and retention time match the expected profile for DSIP under the described LC-MS conditions.

Interpretation: Identity by LC-MS Q1 full scan — Confirmed (DSIP detected; Q1 profile consistent with reference standard).

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