

CERTIFICATE OF ANALYSIS

COA #: **SD20260829_008_PIN10**

SAMPLE INFORMATION

Client	Zentra Brands Limited	Accession #	SD20260829_008
Compound	pinealon	Date Received	08/28/2026
Molecular Formula	C15H26N6O8	Date Reported	09/01/2026
Appearance	White lyophilized powder	Labeled Quantity	10mg
Sample Form	Lyophilized Vial	Lot / Batch #	ZC0028
Storage	Room Temp	CAS Number	175175-23-2
Cap Color	Clear		



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	pinealon	Pass
Purity	LC-MS/MS	≥ 95.0%	99.76%	Pass
Net Peptide Content	LC-MS/MS	Report value	11.14 mg	Pass
Observed Molecular Mass	LC-MS	Within ± 1.0 Da	401.4, 419.3	Pass
Theoretical Molecular Mass	Reference	—	418.41 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

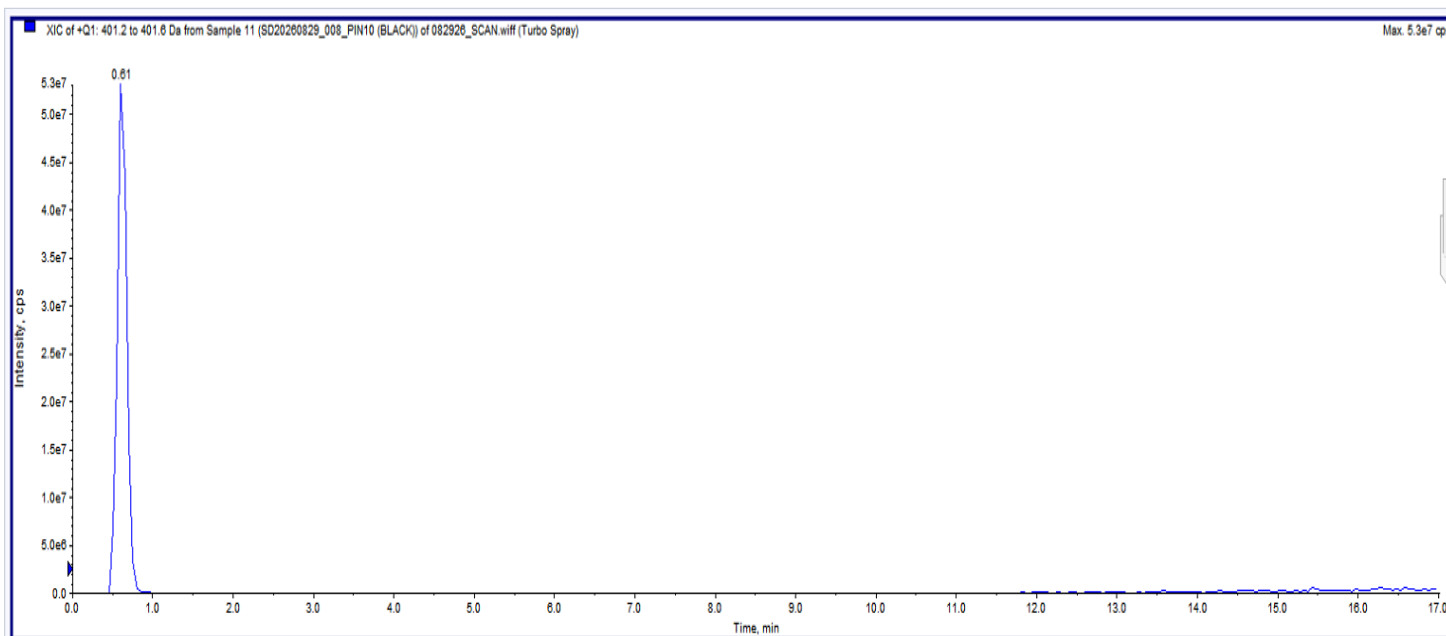
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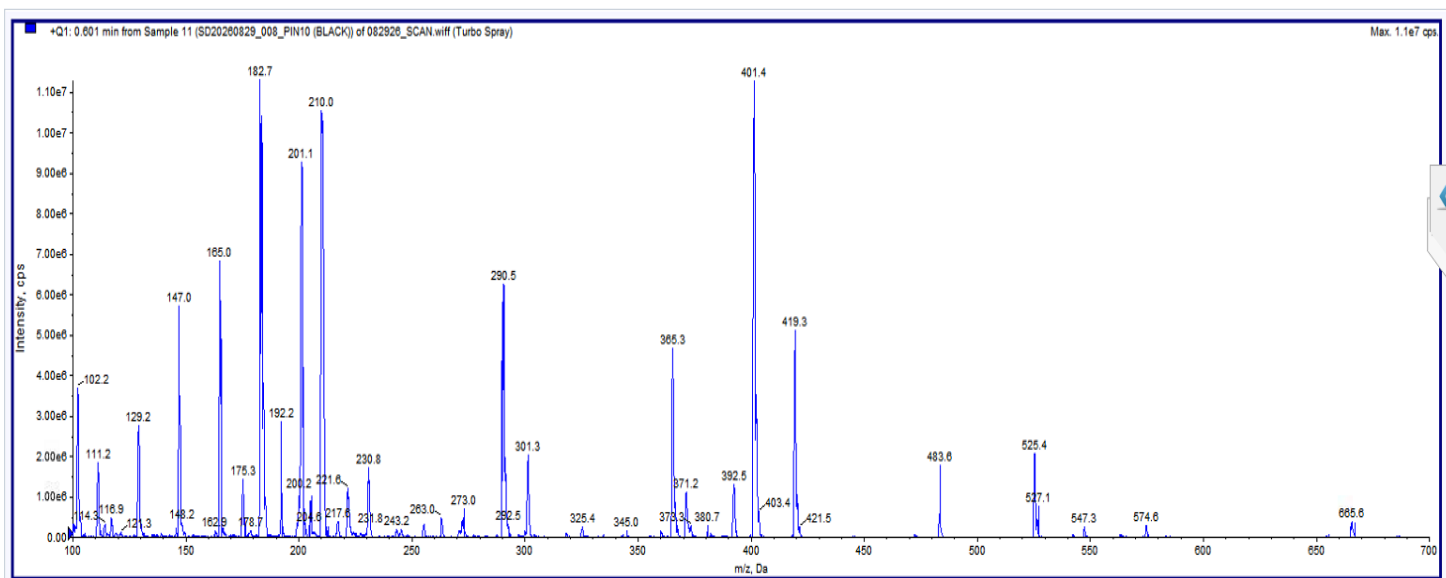
ANALYTICAL DATA

COA #: SD20260829_008_PIN10

CHROMATOGRAM



MASS SPECTRUM (LC-MS)



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ANALYTICAL INTERPRETATION

Chromatogram

Retention Time Match

Mass Spectrum (LC-MS)

Analyte: Pinealon

Sample ID: SD20208029_008_PIN10 (BLACK)

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

Retention time: 0.801min

Result (Q1 MS Identity):

The Q1 full-scan spectrum shows a dominant ion at $m/z \approx 401.4$, consistent with the protonated molecular ion $[M+H]$ of Pinealon ($CHNO$, $MW \approx 403Da$). Secondary peaks at $m/z \approx 419.3, 483.6, 525.4, 665.8$ correspond to sodium, potassium, and higher adducts or minor cluster ions. The observed pattern matches the expected low-mass envelope for a tripeptide under ESI+ conditions.

Interpretation:

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

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