

CERTIFICATE OF ANALYSIS

COA #: **SD20260829_011_PT10**

SAMPLE INFORMATION

Client	Zentra Brands Limited	Accession #	SD20260829_011
Compound	PT-141 (Bremelanotide)	Date Received	08/28/2026
Molecular Formula	C50H68N14O10	Date Reported	09/01/2026
Appearance	White lyophilized powder	Labeled Quantity	10mg
Sample Form	Lyophilized Vial	Lot / Batch #	ZC0029
Storage	Room Temp	CAS Number	189691-06-3
Cap Color	Yellow		



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	PT-141 (Bremelanotide)	Pass
Purity	LC-MS/MS	≥ 95.0%	99.183 %	Pass
Net Peptide Content	LC-MS/MS	Report value	10.92 mg	Pass
Observed Molecular Mass	LC-MS	Within ± 1.0 Da	m/z ≈ 512.8 ([M+2H] ²)	Pass
Theoretical Molecular Mass	Reference	—	1025.17	
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

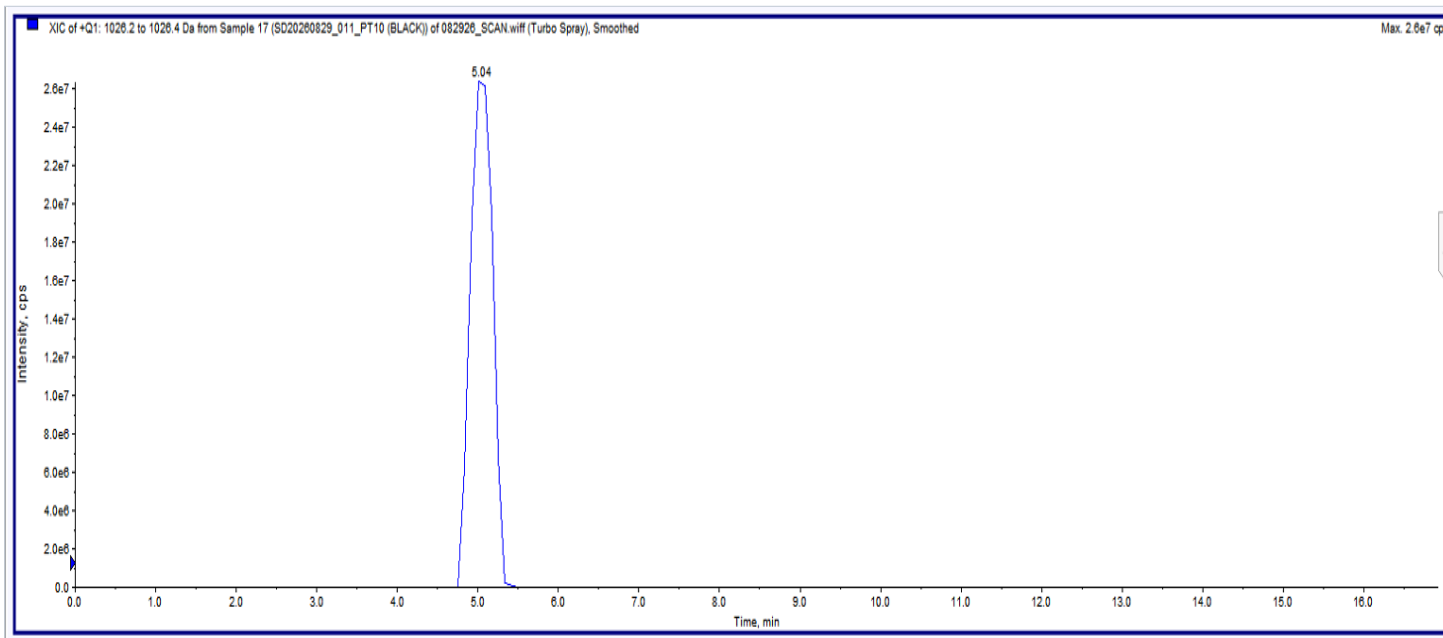
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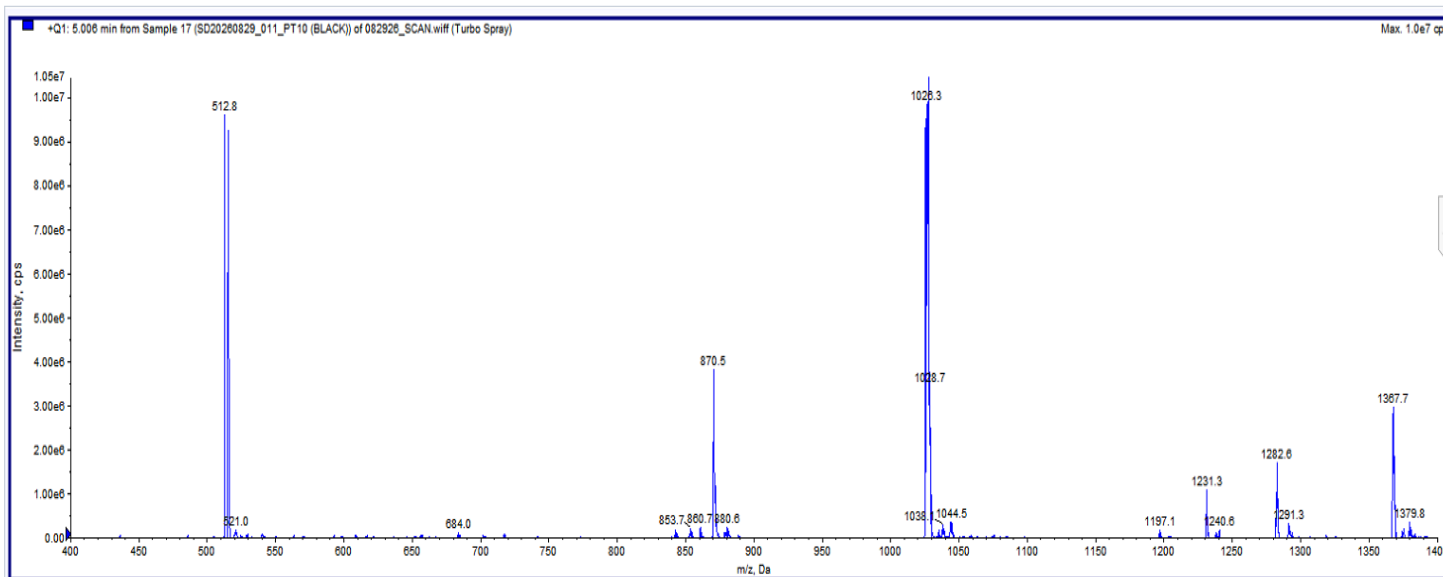
ANALYTICAL DATA

COA #: **SD20260829_011_PT10**

CHROMATOGRAM



MASS SPECTRUM (LC-MS)



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ANALYTICAL INTERPRETATION

Chromatogram

Retention Time Match

Mass Spectrum (LC-MS)

Analyte: PT-141 (Bremelanotide)

Sample ID: SD2020829_011_PT10 (BLACK)

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

Retention time: 5.006min

The Q1 full-scan spectrum at 5.006min shows major ions at $m/z \approx 512.8$ ($[M+2H]^2$) and $m/z \approx 1023.3$ ($[M+H]$), consistent with the expected charge-state distribution for PT-141 (Bremelanotide; MW ≈ 1025 Da). Additional ions at $m/z \approx 821.0$, 853.7, 870.5, 880.6, 1028.7, 1031.0, 1044.5, 1197.1, 1231.3, 1240.8, 1282.6, 1291.3, 1367.7, and 1379.8 correspond to adduct, oligomer, and fragment species. The observed isotopic distribution, charge-state spacing, and retention time are consistent with the expected LC-MS profile for PT-141 under positive-mode ESI conditions.

Interpretation: Identity by LC-MS Q1 full scan — Confirmed (PT-141 detected; Q1 profile consistent with reference standard).

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