

CERTIFICATE OF ANALYSIS

COA #: **SD20260820_012_MT1**

SAMPLE INFORMATION

Client	Zentra brands limited	Accession #	SD20260820_012
Compound	MT-1	Date Received	08/20/2026
Molecular Formula	C78H111N21O19	Date Reported	08/22/2026
Appearance	White lyophilized powder	Labeled Quantity	10mg
Sample Form	Lyophilized Vial	Lot / Batch #	ZC0031
Storage	Room Temp	CAS Number	75921-69-6
Cap Color	Gray		



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	Melanotan 1	Pass
Purity	LC-MS/MS	≥ 95.0%	99.31%	Pass
Net Peptide Content	LC-MS/MS	Report value	10.66 mg	Pass
Observed Molecular Mass	LC-MS	Within ± 1.0 Da	823.6 [M+2H]	Pass
Theoretical Molecular Mass	Reference	—	1646.87 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 · 08/22/2026

Chetan Soni, PhD. **Chetan Soni, PhD.**
Approved by · Laboratory Director · 08/22/2026

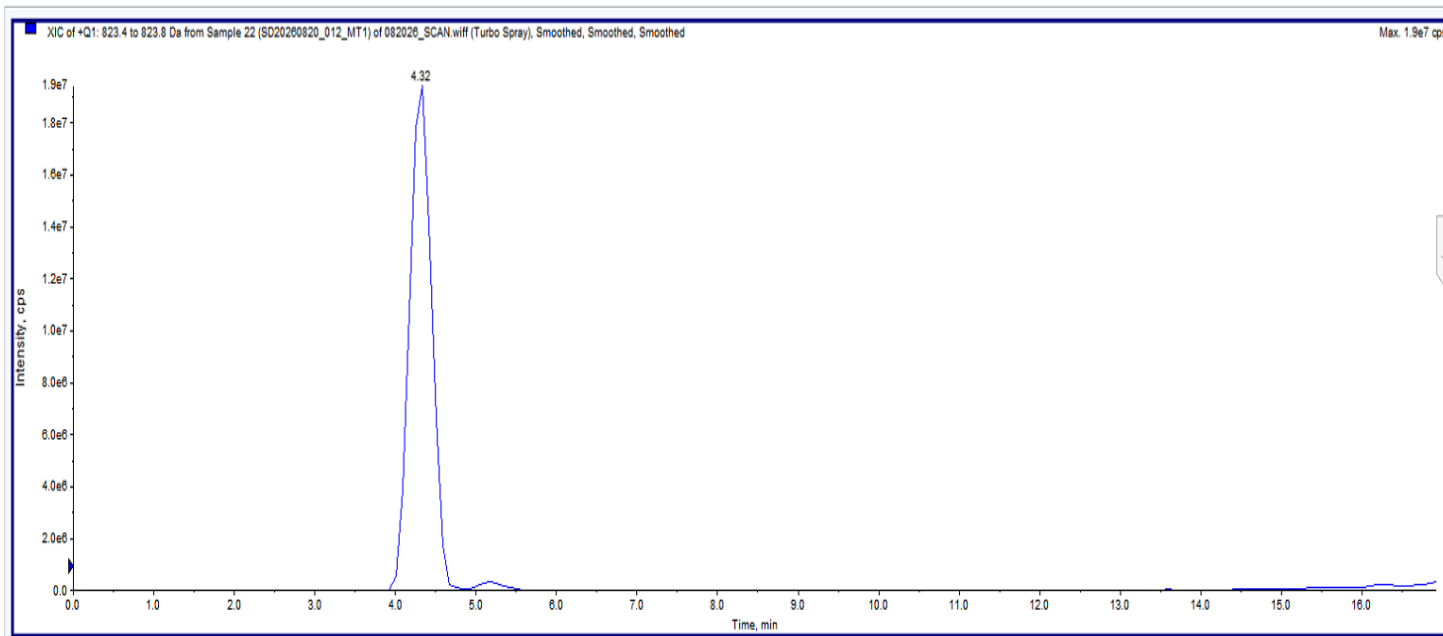
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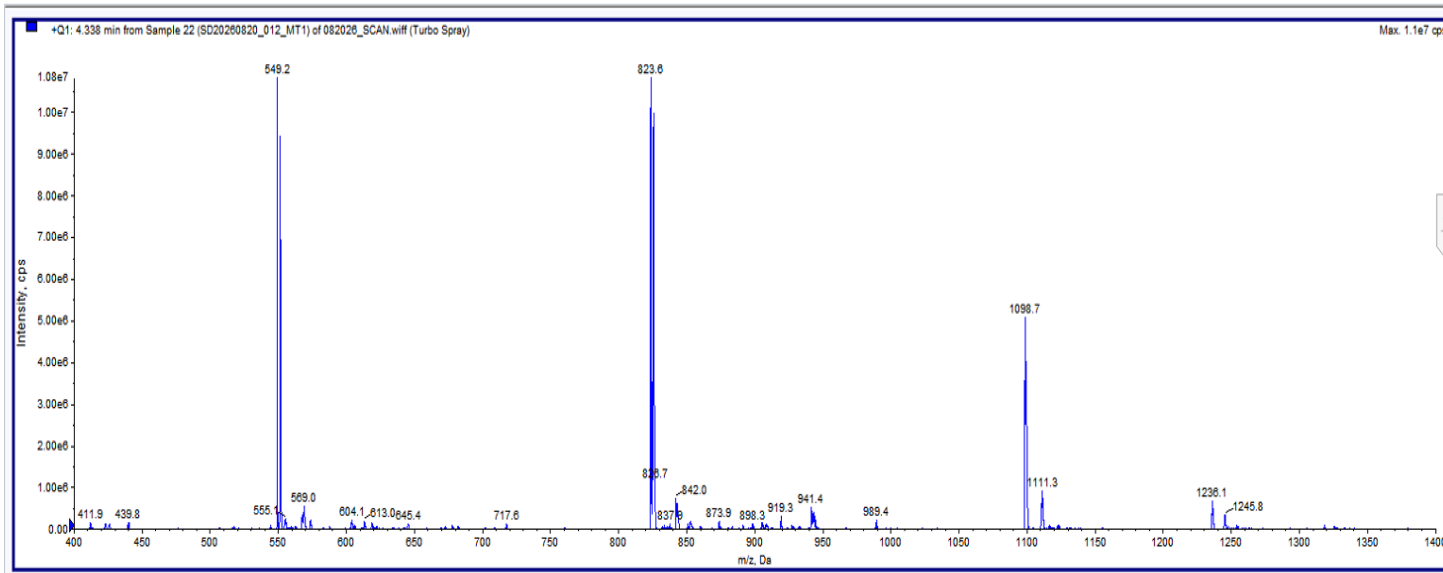
ANALYTICAL DATA

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CHROMATOGRAM



MASS SPECTRUM (LC-MS)



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ANALYTICAL INTERPRETATION

Chromatogram

Retention Time Match

Mass Spectrum (LC-MS)

MelanotanI(MT-1)—Identity(Q1MS)

The sample "MT1" was analyzed by LC-MS in positive-mode Q1 full scan at 4.34min. The spectrum shows a distinct peptide charge-state envelope with major ions at m/z 549.2([M+3H]), and 823.6([M+2H]), consistent with the expected molecular weight and ionization profile of melanotan. The observed pattern and retention time match those of a certified MT-1 reference standard analyzed under identical conditions. These results confirm the identity of the active ingredient as melanotan.

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