

CERTIFICATE OF ANALYSIS

COA #: **SD20260804_010_IPA10**

SAMPLE INFORMATION

Client	MTCompounds	Accession #	SD20260804_010
Compound	Ipamorelin	Date Received	08/04/2026
Molecular Formula	C38H49N9O5	Date Reported	08/05/2026
Counter Ion / Salt	NA	Appearance	White lyophilized powder
Labeled Quantity	10 mg	Sample Form	Lyophilized Vial
Lot / Batch #	N/A	Storage	Room Temp
CAS Number	170851-70-4	Crimp Color	Purple



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	Ipamorelin	Pass
Purity	LC-MS/MS	≥ 95.0%	99.45%	Pass
Net Peptide Content	LC-MS/MS	Report value	10.55 mg	Pass
Observed Molecular Mass	LC-MS	Within ± 1.0 Da	712.6 [M+H]	Pass
Theoretical Molecular Mass	Reference	—	711.85 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 · 08/05/2026

Chetan Soni, PhD. **Chetan Soni, PhD.**
Approved by · Laboratory Director · 08/05/2026

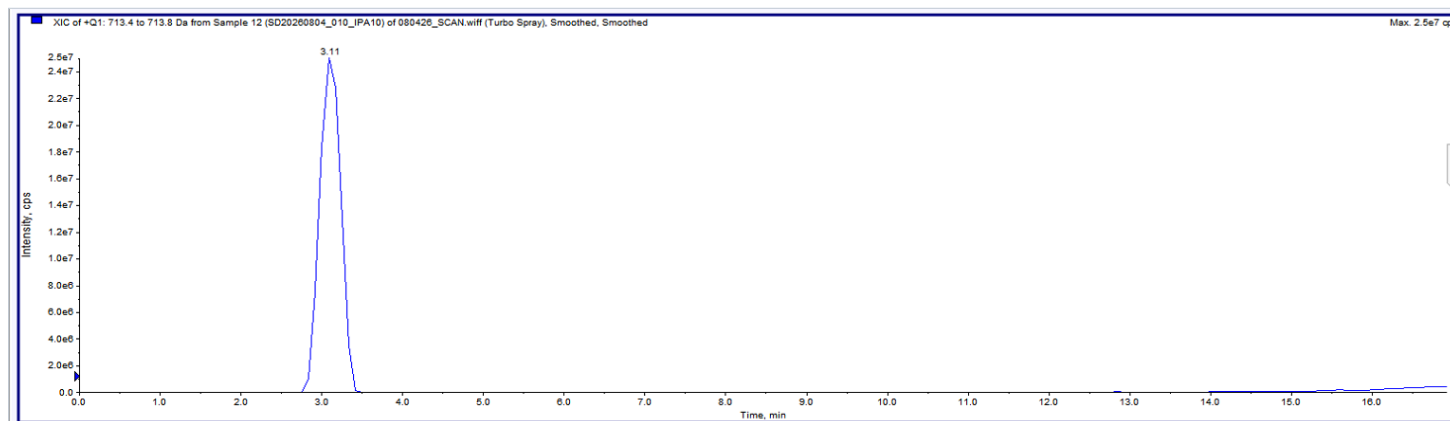
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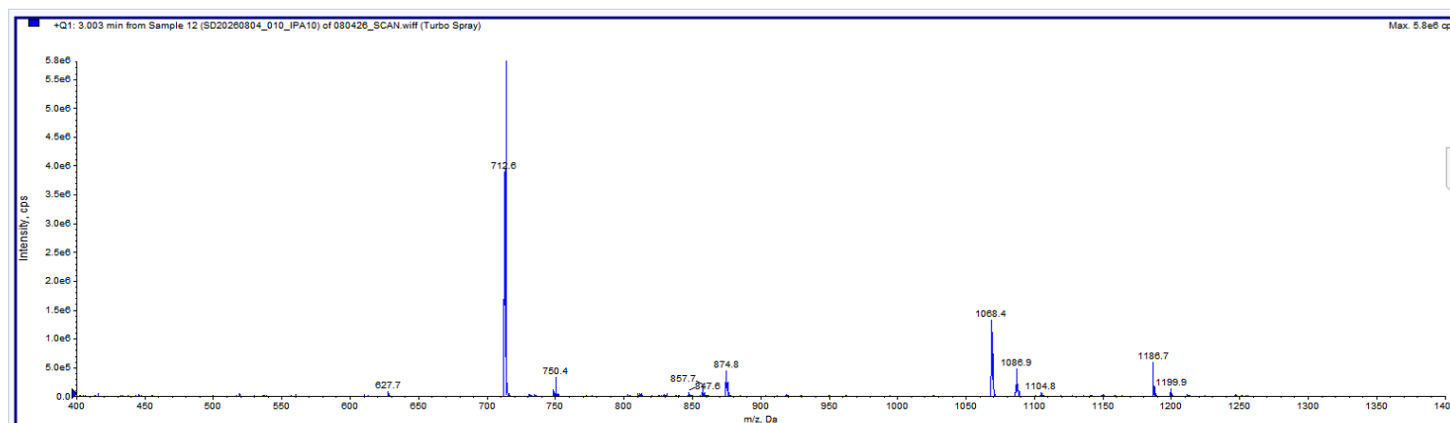
ANALYTICAL DATA

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CHROMATOGRAM



MASS SPECTRUM (LC-MS)



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ANALYTICAL INTERPRETATION

Chromatogram

Retention Time Match

Mass Spectrum (LC-MS)

Identity (LC-MS, Q1 scan – Ipamorelin):

A positive-mode Q1 full scan acquired at 3.00 min from the Ipamorelin sample shows a dominant precursor ion envelope with peaks at approximately m/z 712.6, 857.7, 874.8, 1068.4, 1088.9, 1188.7, and 1199.9, consistent with the expected multiply charged isotopic distribution of Ipamorelin under the validated LC-MS conditions. Additional lower-intensity ions (e.g., m/z 627.7 and nearby related signals) correspond to alternative charge states and adducts of the same peptide species. The observed mass profile and charge-state pattern match the theoretical precursor ion distribution for Ipamorelin within the established tolerance window, confirming analyte identity in this sample.

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