

CERTIFICATE OF ANALYSIS

Modified GRF (1-29) + Ipamorelin - 10 mg total

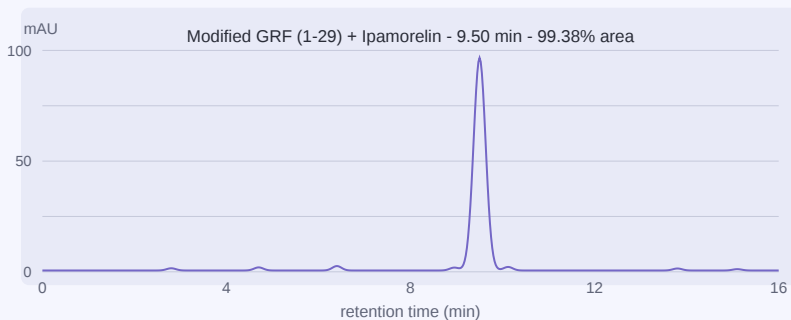
5 mg Modified GRF (1-29) plus 5 mg ipamorelin

Material	Modified GRF (1-29) + Ipamorelin	Client	novumpeptides.com	Received	2026-07-05 at 2-8 C
Batch / lot	BLD-29-E96	Label claim	10 mg total	Analysed	2026-07-06 to 2026-07-07

TEST RESULTS

ATTRIBUTE	RESULT	SPECIFICATION	METHOD	VERDICT
Component identity	All conform	Match references	MA-MS-025 / LC-HRMS	Conforms
Peptide-related purity	99.38%	>= 99.00%	MA-MULTI-014 / UHPLC-UV	Pass
Modified GRF (1-29) per vial	5.00 mg	4.50-5.50 mg	MA-MULTI-014 / UHPLC-MS	Pass
Ipamorelin per vial	5.01 mg	4.50-5.50 mg	MA-MULTI-014 / UHPLC-MS	Pass
Total active content	10.01 mg	9.00-11.00 mg	Calculated from component assays	Pass
Water content	4.38%	<= 8.00%	MA-KF-004 / Karl Fischer	Pass
Residual acetonitrile	197 ppm	<= 410 ppm	MA-GC-006 / HS-GC-FID	Pass
Residual TFA	0.14%	<= 1.00%	MA-IC-003 / ion chromatography	Pass

RP-UHPLC processed trace, UV detection



Record ESA6E96-BLD-01; duplicate independent preparations. System suitability met retention-time and resolution criteria; blank response was below threshold.

Related species > 0.05%

deletion sequence	0.18%
insertion sequence	0.14%
diastereomeric variant	0.10%
N-terminal variant	0.07%
C-terminal variant	0.06%
unresolved peaks	0.07%

Related species were assigned by orthogonal reference comparison and mass-spectrometric or chromatographic evidence. Mean area percentages; reporting threshold 0.05%.

Conclusion

Multiplex LC-MS confirmed every declared component. Individual assays were 5.00 mg Modified GRF (1-29), 5.01 mg Ipamorelin; peptide-related chromatographic purity was 99.38%.

Blend content was quantified component-by-component against qualified references. The purity figure describes resolved peptide-related substances, not the proportion of any one component.

Analytical review

Ines Abadi *I. Abadi*

Quality review

Marcus Oyelaran

Approval date: 2026-07-08 *M. Oyelaran*

Decision rule: guarded acceptance; reported outcomes account for method uncertainty and remain within the stated project specifications.