CERTIFICATE OF ANALYSIS

Peptide Raw Material Analytical Assessment

HELIX PHARMACOKINETICS & PHARMACODYNAMICS

Product Name:	**WOLVERINE BLEND**
Batch/Lot No:	**WOLV-0227-06**
Form:	**PEPTIDE API MATERIAL**
Quantity:	**ANALYTICAL TESTING SAMPLE**
Manufacturing Date:	**02 / 02 / 2026**
Expiration Date:	**02 / 02 / 2029**
Storage Condition:	**20°C - 30°C (Room Temperature, Dry, Protected from Light)**

Parameter	Method	Specification	Result	Status
Appearance	Visual Inspection	White Amorphous Powder	CONFORMS	***PASS***
Identity (Peptide Match)	HPLC vs Ref Std	CONFORMS	CONFORMS	***PASS***
Purity	RP-HPLC	≥ 98.0 %	99.08%	***PASS***
Molecular Weight	MALDI-TOF-MS	MULTIPLE	MULTIPLE	***PASS***
Solubility	Visual Dissolution Asmnt	Freely Soluble in Water	CONFORMS	***PASS***
Water Content	Karl Fischer (AOAC 984.20)	≤ 5.0 % moisture	2.40%	***PASS***
Residual Solvents	GC-MS	NMT 0.5 %	ND (0.00%)	***PASS***
Assay	HPLC	≥ 95.0%	98.61%	***PASS***
Acetate Content	Ion Chromatography	≤ 15.0%	7.90%	***PASS***
Residual TFA	Ion Chromatography	≤ 0.10% (1000ppm)	174ppm	***PASS***
Loss on Drying	Gravimetric	≤ 5.0%	2.30%	***PASS***

Analyst: Dr. Amanda R. Voss, Ph.D. - Director of Analyt Date: 03 / 21 / 2026

Approved By: Michael Tran, M.Sc. - Quality Assurance Manage Date: 03 / 21 / 2026

Analytical Verification of Peptide Quality & Stability Validation

Analytical evaluation confirms the peptide meets stringent purity specifications, with no measurable impurities or byproducts detected. Stability testing supports preservation of molecular integrity, with no observable degradation across validated conditions. These findings verify consistency in composition and support reliable performance in controlled applications.

FINAL PERFORMANCE ASSESSMENT

Based on the analytical data presented, the sample meets all specified quality criteria. Testing confirms high purity, accurate molecular identity, and compliance with established specifications for composition and performance. No impurities, residual solvents, endotoxins, or microbial contamination were detected beyond acceptable limits. Stability parameters and physicochemical properties fall within validated ranges, indicating no evidence of degradation.