

Certificate of Analysis

HF12 | HGH Fragment 176-191 | 12 mg × 10 vials | Page 1 of 1

Document No.	PC-QC-COA-HF12-26031988-25	Version	V1.0	Document Status	Controlled Copy
Prepared by	Quality Control Department	Reviewed by	Quality Assurance Department		
Approved by	Authorized Quality Representative	Electronic Approval	Approved		

Product Name	HGH Fragment 176-191	Product Code	HF12
Pack Size	12 mg × 10 vials	Batch No.	26031988-25
CAS No.	66004-57-7	Molecular Formula	C78H123N23O22S2
Mfg. Date	Jun. 15, 2026	Retest Date	Jun. 14, 2028
Product Class	Synthetic Peptide	Molecular Weight	1799.10 Da
Sequence / Identity	H-Phe-Leu-Arg-Ile-Val-Gln-Cys(1)-Arg-Ser-Val-Glu-Gly-Ser-Cys(1)-Gly-Phe-OH; disulfide Cys7-Cys14		

[TEST ITEM]	[SPECIFICATION]	[RESULT]
Appearance	White to off-white lyophilized powder	Complies
Solubility	Soluble in water	Complies
Identity	HPLC/LC-MS identity method per product specification	Identity confirmed
Mass spectrum	Molecular ion within method acceptance criteria	Consistent with product identity
Related substances	Per HPLC method specification	Meets specification
Purity (HPLC)	NLT 98.0%	99.128%
Acetic acid	NMT 0.5%	Not detected
Trifluoroacetate	NMT 0.5%	Not detected
Ammonium ion	NMT 8.0%	Not detected
Water content (KF)	NMT 5.0%	4.750%
Assay / Content	NLT 80%	88.560%
Residual solvents	Methanol NMT 3000 ppm; Ethanol NMT 5000 ppm	Not detected
Bacterial endotoxins	NMT 10 EU/mg	Complies
Microbial limits	TAMC NMT 100 cfu/g; TYMC NMT 100 cfu/g	Complies

Conclusion: This batch complies with the approved internal quality specification.

Storage: Store in an airtight container, protected from light; short term: 2–8°C; long term: below -10°C. Retest date is valid only when stored under recommended conditions in unopened original packaging.

For research and development use only. This document is provided for product quality reference and is not intended for clinical or diagnostic use.

Testing performed under PeptiCore internal quality control procedures unless otherwise specified.

N.D. / Not detected: Below method detection limit.

Method references: Identity PC-QC-ID-001; Purity by HPLC PC-QC-HPLC-001; Mass Spectrum PC-QC-MS-001; Water Content by KF PC-QC-KF-001; Residual Solvents PC-QC-RS-001; Bacterial Endotoxins PC-QC-BET-001; Microbial Limits PC-QC-MLT-001.