

Certificate of Analysis

Product Information

Product Name: GHK-Cu (Copper Tripeptide)
CAS Number: 49557-75-7
Molecular Formula: C14H24N6O4Cu
Molecular Weight: 340.2 g/mol
Appearance: Blue to light blue lyophilized powder

Batch Information

Batch / Lot Number: GHK-Cu-2025-002
Quantity: 100mg
Date of Manufacture: 02-Sep-2025
Retest Date: 02-Sep-2027
Storage Conditions: -20 °C, dry and protected from light

Analytical Results

Test	Specification	Result	Method
Identity (Mass Spectrometry)	Consistent with theoretical mass of 340.2 Da	340.3 Da (M+H)+	ESI-MS
Purity (HPLC)	≥ 98.0 % (by area)	99.2 %	RP-HPLC
Sequence Confirmation	As per GHK peptide sequence (Gly-His-Lys)	Confirmed	MS/MS, Edman degradation
Appearance	Blue to light blue lyophilized powder	Light blue powder	Visual
Solubility	Soluble in sterile water (≥1 mg/mL)	Pass	Visual
Residual Solvent	≤ 0.5 %	<0.2 %	GC
Water Content (Karl Fischer)	≤ 5.0 %	2.3 %	KF titration
Acetate Content	Report only	5.0 %	Ion chromatography
Peptide Content	≥70 %	74 %	Nitrogen analysis
Endotoxin	< 0.25 EU/mg	0.07 EU/mg	LAL test
Microbial Limit Test	<100 CFU/g, no pathogens	Pass	USP <61>/<62>

Compliance Statement

The above batch of **GHK-Cu** complies with the stated specifications.
This batch of **GHK-Cu** meets all specified analytical and microbiological criteria and is suitable for **research use only**. Manufactured and tested under controlled conditions to ensure consistency, purity, and integrity.