

Chem Research LTD

Certificate of Analysis			
Product Name	GHK-Cu (Copper Tripeptide-1)		
CAS. NO.	89030-95-5	Batch No.	GK-250709
Molecular Formula	C ₁₄ H ₂₂ N ₆ O ₄ Cu	Molecular Weight	401.91
Mfg.Date	2025.07.09	Retest Date	2027.07.09
Report Date	2025.07.11	Quantity	2041g
Sequence: Gly–His–Lys–Cu ²⁺			
Items		Specification	Result
1	Appearance	Royal-blue to deep-blue powder	Blue powder
2	Solubility	Freely soluble in water	Conforms
3	Peptides Purity	≥99.0%	99.81%
4	Copper Content (elemental)	13.5-14.5% (w/w)	13.92%
5	Identity (HR-MS)	[M] ⁺ consistent with GHK-Cu core	401.11 Da
6	Water Content (K.F)	3.0-5.0%	3.9%
7	Acetate Content	11.0-14.0 %	12.8%
8	Residual Solvents	Acetonitrile ≤410ppm	22ppm
		Ethanol ≤ 5000 ppm	145ppm
9	Trifluoroacetic Acid (TFA)	≤ 0.03 %	Not detected
10	Bacterial Endotoxins	< 5 EUmg	Conforms
11	Peptides Content	≥80.0%	82.4%
Storage	2–8 °C, protected from light and moisture, tightly sealed		
Conclusion	The product tested Conform with In-house standard		
Remark	It is only supplied as chemical product		