

GHK-Cu

Released 27 Apr 2026

Product name	GHK-Cu	Batch number	GHK251208
Lot / sample ID	MP-GHKCu-002DS	CAS number	49557-75-7
Molecular formula	C ₁₄ H ₂₂ CuN ₆ O ₄	Molecular weight	401.91 g/mol
Presentation	3 mL cartridge (60.693 mg)	Concentration	20.231 mg/mL
Appearance	Blue liquid	Storage	2-8 C, dark, sealed; do not freeze
Date of analysis	27 Apr 2026	Raw material batch	250801 (powder)

Peptide identity

Sequence	H-Gly-His-Lys-Cu	Salt form	GHK-Cu (1:1) HCl
Supplier powder COA CAS	89030-95-5 (HCl salt)	Quality standard	Enterprise Standards

Test method & conditions

Instrument	Shimadzu LabSolutions HPLC	Detection	PDA, 220 nm
Injection volume	10 uL	Retention time	1.724 min
Date acquired	14 Apr 2026	Date processed	27 Apr 2026

Raw material (powder) batch 250801

Batch number	250801	Manufacture date	6 Aug 2025
Report date	30 Aug 2025	Retest date	5 Aug 2027
Storage	Tight containers; stored at 2-8 C	HPLC wavelength	210 nm
Date acquired (HPLC)	26 Aug 2025	Vial / injection	A-4 / #2, 10 uL

Analytical results

Test parameter	Method	Specification	Result	Status
Appearance	Visual	Blue liquid	Conforms	Conforms
Purity (HPLC)	RP-HPLC	> 98%	99.91%	Pass
Appearance (powder)	Visual	Bluish to bluish purple crystalline powder	Conforms	Conforms
Solubility (powder)	-	>= 100 mg/mL in water	Conforms	Conforms

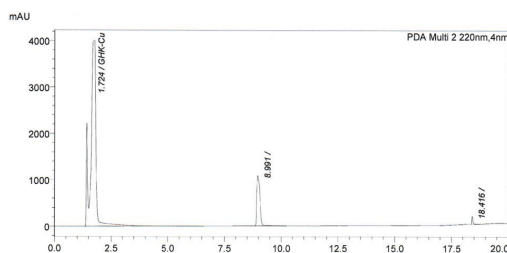
GHK-Cu

continued

Analytical results (continued)

Test parameter	Method	Specification	Result	Status
Identification (powder)	HPLC	Consistent with the reference substance	Conforms	Conforms
Molecular ion (powder)	MS	401.91 +/- 1.0	Conforms	Conforms
Water content (powder)	Karl Fischer	<= 8.0%	4.9%	Pass
Purity (powder)	HPLC	>= 99.0%	99.95%	Pass
Related subst. (powder)	HPLC	Total <= 1.0% / Max single <= 0.5%	0.05% / 0.05%	Pass
Peptide content (GHK)	-	>= 70.0%	73.8%	Pass
Copper content (Cu)	-	10.0 - 16.0%	13.5%	Pass
Chloride content (Cl)	-	<= 10.0%	7.7%	Pass
pH (1 mg/mL, powder)	-	5.0 - 7.0	6.3	Pass
Bact. endotoxins (powder)	-	<= 5 EU/mg	Conforms	Conforms
Lead (Pb, powder)	-	<= 10 ppm	Conforms	Conforms
Arsenic (As, powder)	-	<= 2 ppm	Conforms	Conforms
Cadmium (Cd, powder)	-	<= 5 ppm	Conforms	Conforms
Mercury (Hg, powder)	-	<= 1 ppm	Conforms	Conforms

HPLC chromatogram



RP-HPLC - main peak RT 1.724 min (99.91%) - reproduced from source lab report

Overall result — Conforms to specification

QC PASS

Results relate only to the batch tested, by the stated methods at time of release. Storage figures are recommendations, not stability data. For research use only - not for human consumption.