

RELEASED

Certificate of Analysis

Document COA-ZXP-T7QB · Rev. 1

Product	GHK-Cu	Lot No.	ZXP-T7QB
INCI name	Copper Tripeptide-1	Manufacturer batch	20260605
CAS No.	89030-95-5	Manufacture date	06/29/2026
Formula / MW	C ₁₄ H ₂₂ CuN ₆ O ₄ · 401.9 g/mol	Expiration date	07/14/2028
Description	Blue to blue-violet crystalline powder	Date issued	10/20/2026
Test standard	Manufacturer in-house specification	Shelf life	24 months
Storage	Unopened powder: keep sealed, cool, dry and dark.		

Test	Specification	Result	Status
Physical & chemical			
Appearance	Bluish to bluish-purple crystalline powder	Conforms	Pass
Identification (HPLC)	Main-peak retention time matches reference standard	Conforms	Pass
Solubility	Freely soluble in water	Freely soluble	Pass
Purity (HPLC)	≥99.0%	99.57%	Pass
Clarity of solution (0.5% aqueous)	Clear and transparent, no visible flocculation	Conforms	Pass
pH (1 mg/mL)	5.0 – 7.0	5.89	Pass
Water content	≤8.0%	7.8%	Pass
Peptide content (GHK)	≥70%	70.8%	Pass
Copper content (Cu)	8.0 – 16.0%	11.9%	Pass
Chloride content (Cl)	≤10%	7.8%	Pass
Residual solvents			
Dichloromethane (CH ₂ Cl ₂)	≤600 ppm	Not detected	Pass
Acetonitrile (CH ₃ CN)	≤410 ppm	Not detected	Pass
Heavy metals			
Lead (Pb)	≤10 ppm	Conforms	Pass
Arsenic (As)	≤2 ppm	Conforms	Pass
Mercury (Hg)	≤1 ppm	Conforms	Pass
Cadmium (Cd)	≤5 ppm	Conforms	Pass
Microbiological			
Total aerobic microbial count	≤1,000 CFU/g	Conforms	Pass
Total yeast and mold count	≤100 CFU/g	Conforms	Pass
Thermotolerant <i>Escherichia coli</i>	Absent	Absent	Pass
<i>Pseudomonas aeruginosa</i>	Absent	Absent	Pass
<i>Staphylococcus aureus</i>	Absent	Absent	Pass

Conclusion: This lot was tested against the manufacturer's specification and meets all requirements. Released for sale.

Released by
Velune Labs Quality Assurance

Release date
10/20/2026