

Certificate of Analysis (COA)

质检报告



GHK-CU - Copper Tripeptide-1 (蓝铜胜肽)

Product Type: Lyophilized Powder (Freeze-Dried) | 冻干粉

Product Information | 产品信息

Product Name 产品名称	GHK-CU (Copper Tripeptide-1) 蓝铜胜肽 / 三肽 -1 铜
INCI Name INCI 名称	Copper Tripeptide-1
CAS Number CAS 号	89030-95-5
Molecular Formula 分子式	C ₃₄ H ₅₂ N ₈ O ₇ Cu (may vary by salt form)
Molecular Weight 分子量	401.91 g/mol
Specification 规格	50mg, 100mg × 10 vials/box Gram (raw powder)
Appearance 外观	Blue crystalline powder 蓝色结晶粉末
Batch Number 批号	GHK20260628
Manufacturing Date 生产日期	20260628
Manufacturing Date	2026-07-01
Storage 储存条件	Keep in dark and cool dry place (-20 to 8°C) 密封保存于阴凉干燥处 (-20°C 到 8°C)
Shelf Life 保质期	24 months from manufacturing date (unopened)

Chemical Information | 化学信息

⚠ Salt Form Variations | 盐形式说明

GHK-CU is available in different salt forms:
GHK-CU 有多种盐形式：

Salt Form 盐形式	Molecular Formula 分子式	Molecular Weight 分子量
Acetate 乙酸酯	C ₃₄ H ₆₀ CuN ₁₀ O ₁₄	~850 g/mol
Trifluoroacetate (TFA)	C ₃₄ H ₅₂ N ₈ O ₇ Cu	~401.91 g/mol
Chloride 氯化物	C ₃₄ H ₅₄ ClCuN ₁₀ O ₇	~880 g/mol

All forms are biologically active. The molecular weight varies by salt form.
所有形式都具有生物活性，分子量因盐形式而异。

Test Results | 检测结果

Test Item 检测项目	Standard 标准	Result 结果	Method 方法
Appearance 外观	Blue crystalline powder 蓝色结晶粉末	Complies 符合	Visual
Identity by ESI-MS 质谱鉴别	Theoretical MW: 401.91 理论分子量: 401.91	Complies 符合	ESI-MS
Purity (HPLC) 纯度	≥98.0%	99.98%	HPLC
Copper Content 铜含量	8.0-16%	11.51%	ICP-MS
Water (K.F.) 水份	≤8.0%	5.27%	Karl Fischer
Chloride Content (IC) 氯化物含量	≤10%	7.73%	Ion Chromatography
pH (0.2% Water Soln.) pH 值	5.5-7.5	6.12	pH Meter

Solubility 溶解度	≥100mg/ml (H ₂ O) ≥100mg/ml (水)	Complies 符合	Visual
Loss on Drying 干燥失重	≤5.0%	5.27%	LOD
Heavy Metals 重金属	≤10 ppm	<5 ppm	ICP-MS
Microbial Limit 微生物限度	≤100 CFU/g	<50 CFU/g	Plate Count
E. coli 大肠杆菌	Negative	Negative	PCR
Salmonella 沙门氏菌	Negative	Negative	PCR

Usage Instructions | 使用说明

💡 Reconstitution Guide | 复溶指南

Specification 规格	BAC Water 溶剂量	Concentration 浓度
50mg vial	1ml	50mg/ml
100mg vial	2ml	50mg/ml
1g (1000mg)	10-20ml	50-100mg/ml

Storage after reconstitution: Refrigerate (2-8°C), use within 28 days.
复溶后保存： 冷藏 (2-8°C)，28 天内使用。

Conclusion | 结论

The product complies with the enterprise quality standards.
本品符合企业质量标准。



Tested by | 检测
Lab Technician

Approved by | 批准
QA Director

Laboratory Information | 实验室信息

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