



Certificate of Analysis

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Product Name	(2S)-6-amino-2-[[[(2S)-2-[(2-aminoacetyl)amino]-3-(1H-imidazol-5-yl)propanoyl]amino] hexanoate (CopperPeptide-1.GHK-Cu)		
Batch No.	P24042502	CAS No.	89030-95-5
Sequence	GHK Cu Copper Peptide;GHKcu/Growth-Modulating peptide;Ahk-cu; Liver Cell Growth Factor(GHK);(Gly-His-Lys)2Cu.xHAc; L-Lysine,glycyl-L-histidyl-;Copper Peptide powder (GHK-cu);AHK-Cu (Copper Peptide)		
Manufacturing Date	Apr,15,2024	Received Date	Apr,15,2024
Report Date	Apr,16,2024	Retest Date	Apr,14,2025
Test Reference	In-house specification/Protocol specification		
Test Items	Standard Specification	Test Results	
Appearance	Blue or blue-purple crystalline particles or powder	Blue crystalline particles	
Solubility	Easily soluble in water	Easily soluble in water	
Identification	HPLC	The retention time of the Copper Tripeptide-1 of the Sample solution corresponds to that of the standard solution	The retention time of the Copper Tripeptide-1 of the Sample solution corresponds to that of the standard solution
pH	6.0~7.0	6.9	
Acetic acid	NMT 2.5%	0.31%	
Water	NMT 5%	3.2%	
Copper	10.0%~16.0%	15.2%	
Elemental Impurity	Pb:NMT 10 ppm As:NMT 2 ppm Hg:NMT 1 ppm Cd:NMT 5 ppm V: NMT 10 ppm Co:NMT 10 ppm Ni:NMT 10 ppm	Pb: 0.006 ppm As: 0.077 ppm Hg: Not Detected Cd: 0.001 ppm V: 0.010 ppm Co: 0.019 ppm Ni: 0.487 ppm	



办公地址：浙江省杭州市上城区同协金座商务中心 19 幢 1204 室 邮编：310002


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工厂地址：杭州市经济技术开发区银海街 600 号 邮政编码：310018

Factory Address: No.600 Yin Hai Street, Hangzhou Economic & Technological Development Area, Hangzhou, P.R. China 310018



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第 2 页 / 共 2 页

Product Name	(2S)-6-amino-2-[[[(2S)-2-[(2-aminoacetyl)amino]-3-(1H-imidazol-5-yl)propanoyl]amino] hexanoate (CopperPeptide-1.GHK-Cu)		
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Manufacturing Date	Apr,15,2024	Received Date	Apr,15,2024
Report Date	Apr,16,2024	Retest Date	Apr,14,2025
Test Reference	In-house specification/Protocol specification		
Test Items	Standard Specification	Test Results	
Purity	NLT 98.0%	99.7%	
Bacterial endotoxin	NMT 100 cfu/g	LT 10 cfu/g	
Residual solvents	EtOH:NMT 5000 ppm MTBE:NMT 5000 ppm THF:NMT 720 ppm DMF:NMT 880 ppm CH ₂ Cl ₂ :NMT 600 ppm CH ₃ CN:NMT 410 ppm Acetone:NMT 5000 ppm Isopropyl ether:NMT 5000 ppm	EtOH:10 ppm MTBE:Not Detected THF:Not Detected DMF:78 ppm CH ₂ Cl ₂ : Not Detected CH ₃ CN: Not Detected Acetone: Not Detected Isopropyl ether: Not Detected	
Peptide Assay	NLT 85.0%	88.1%	
Packaging and storage	Store at a temperature of 2~8℃,protected from light.		
Conclusion	This batch of product complies with Enterprise Standard.		
Prepared by/Date: Yuchen Ding	Reviewed by/Date: JkUu	Approved by/Date: 	

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