MZ Biolabs
2102 N Country Club Rd
Tucson, AZ 85716
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Certificate of Analysis

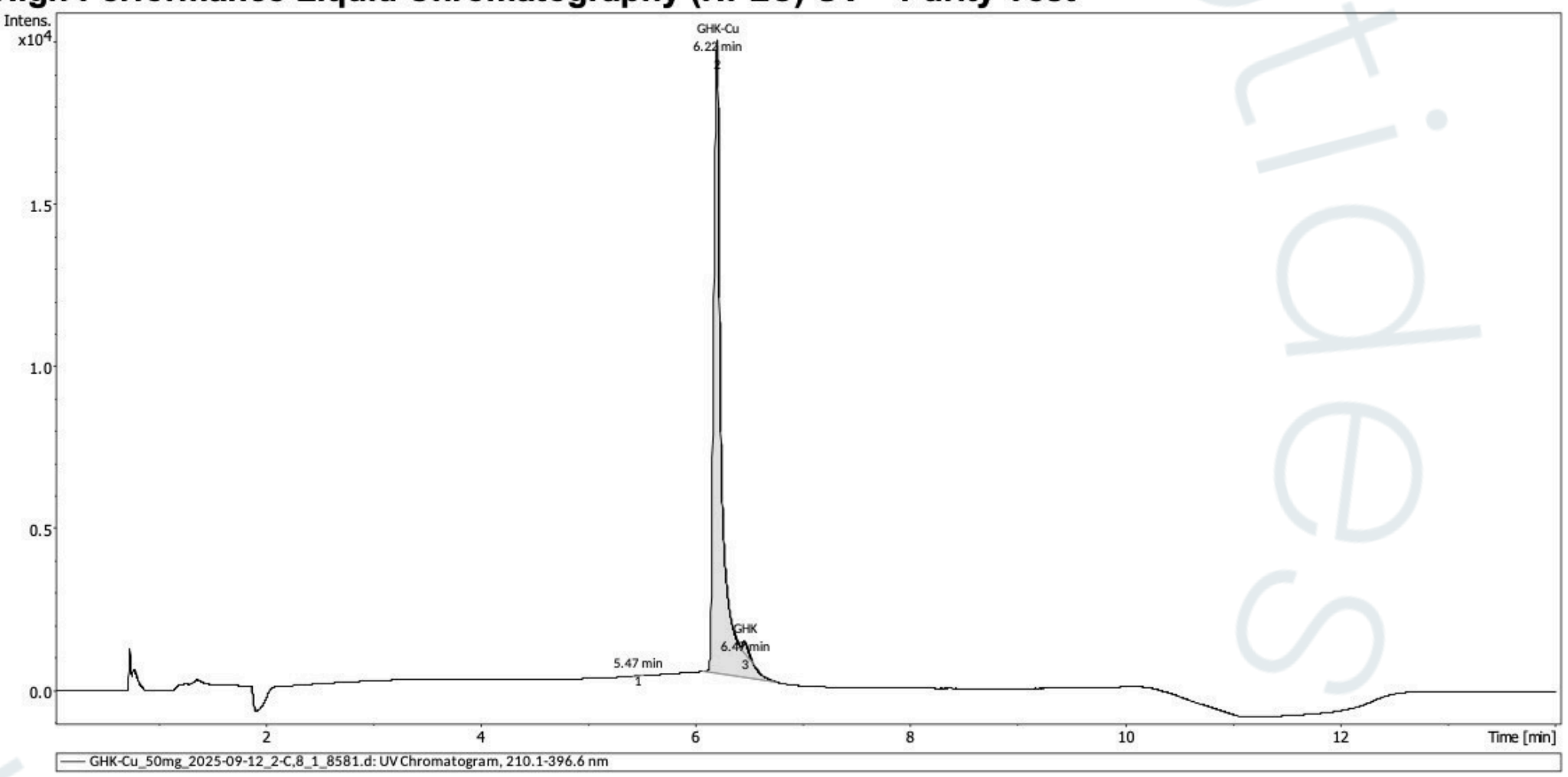
GHK Copper 50mg

copper;(2S)-6-amino-2-[[(2S)-2-[(2-aminoacetyl)amino]-3-(1H-imidazol-5-yl)propanoyl]amino]hexanoate

Compound	: **GHK-Cu**	**Client :**	**Tides Peptides**
Lot number	: **2025-09-12**		**www.tidespeptides.com**
Analysis date	: **2025-09-22**		
Purity %	: **99.92%**		
Method	: **HPLC-UV-MS**		

PubChem CID: 71587328
https://pubchem.ncbi.nlm.nih.gov/compound/71587328

High Performance Liquid Chromatography (HPLC) UV – Purity Test



PEAK LIST	Number of detected peaks: 3			
	Time (min)	Area	%Area	
1	5.47	8.33E+01	0.08	
2	**6.22**	**1.05E+05**	**98.78**	**GHK Cu**
3	**6.47**	**1.21E+03**	**1.14**	**GHK**

Overall purity : 99.92

The GHK-Copper complex dissociates slightly during HPLC resulting in the small GHK peak immediately after GHK-Cu.
This is normal.

Note: Injectable peptides may contain salts and sugars to aid in solubility and act as pH buffers. These are not normally detected using UV and are not considered impurities.

Analysis Performed by
Ken Pendarvis, ChE
Analytical Chemist
MZ Biolabs
contact@mzbiolabs.com

2025-09-29

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copper;(2S)-6-amino-2-[[(2S)-2-[(2-aminoacetyl)amino]-3-(1H-imidazol-5-yl)propanoyl]amino]hexanoate

PubChem CID: 73587
https://pubchem.ncbi.nlm.nih.gov/compound/73587

Mass Spectrometry (MS) – Identity Test

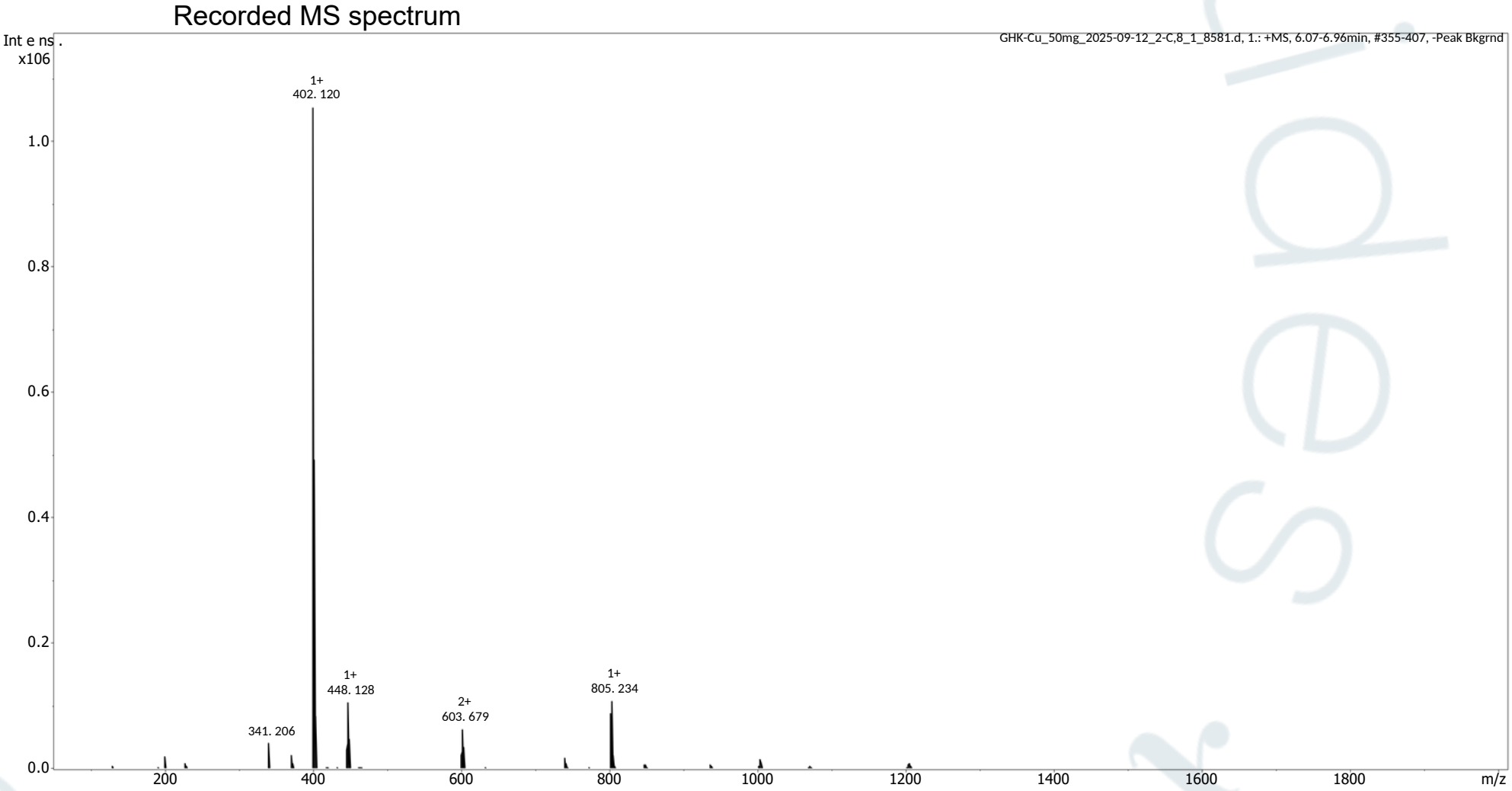
Identityconfirmed using HPLC-MS
Molecular weight calculated using monoisotopic m/z values from mass spectrum

Expected monoisotopic mass :	402.10	Da
Measured monoisotopic mass :	402.12	Da

Molecular weight confirmed

Note : Monoisotopic m/z values are not easily seen in full spectrum view for larger molecules and peptides. The dominant isotopic peak (base peak) shown in the spectrum below can be used to approximate the average molecular weight frequently reported by vendors and databases as a secondary means of confirmation.

Recorded MS spectrum



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2025-09-29

CERTIFICATE OF ANALYSIS

Product Name	GHK-CU (Copper Tripeptide-1)	CAS NO.	89030-95-5
Batch NO.	NCGHK250610	Molecular formula	C14H22N6O4Cu.xHcl
Manufacture Date	June.10, 2025	Molecular weight	401.91+x36.5
Reference standard	Enterprise Standard		

TEST	SPECIFICATION	RESULTS
Appearance	Blue crystalline powder	Conforms
Identity by ESI-MS	Theoretical MW:401.91	Conforms
Solubility	≥100mg/ml(H2O)	Conforms
Purity(HPLC)	≥ 98%	99.97%
Copper content	8.0~16%	11.07%
Water	≤ 8.0%	4.39%
pH	5.5~7.5	6.32
Peptide Assay	65.0%-85.0%	84.76%
Conclusion	This product conforms to the Enterprise Standard.	

Note: this product is intended for research use only

Important: Stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated.