

Certificate of Analysis

GHK Copper 50 mg

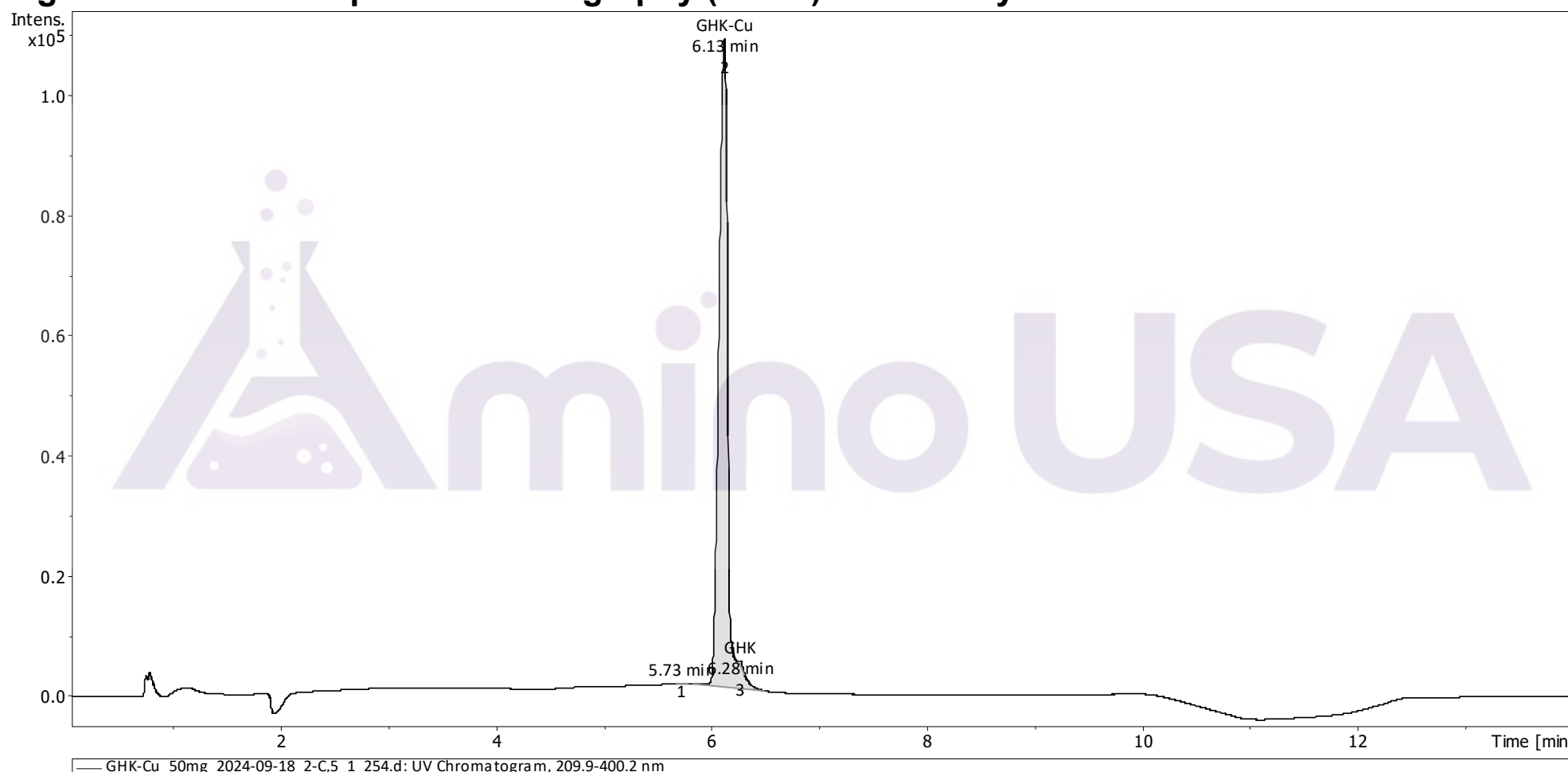
copper;(2S)-6-amino-2-[[[(2S)-2-[(2-aminoacetyl)amino]-3-(1H-imidazol-5-yl)propanoyl]amino]hexanoate

Compound	: GHK Cu	Client	: Amino USA
Lot number	: 24GHKCu50-0003		: www.aminousa.com
Analysis date	: 2024-10-16		
Purity %	: 99.97%		
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	5.73	1.88E+02	0.03	
2	6.13	6.28E+05	99.67	GHK Cu
3	6.28	1.89E+03	0.30	GHK

Overall purity : 99.97

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
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2024-11-01

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Mass Spectrometry (MS) – Identity Test

Identity confirmed using HPLC-MS

Molecular weight calculated using monoisotopic m/z values from mass spectrum

Expected monoisotopic mass : 402.10 Da

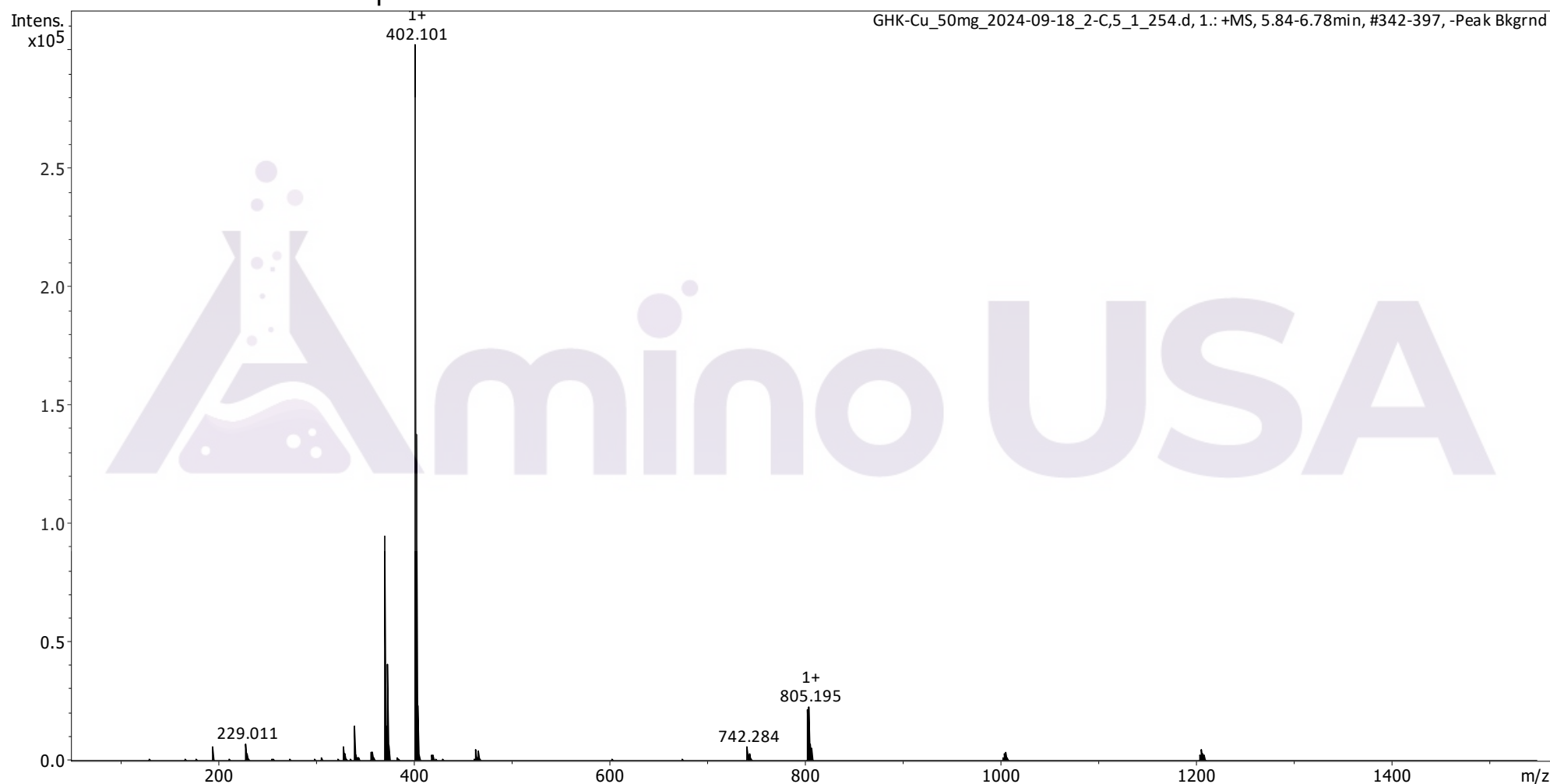
Measured monoisotopic mass : 402.10 Da

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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