

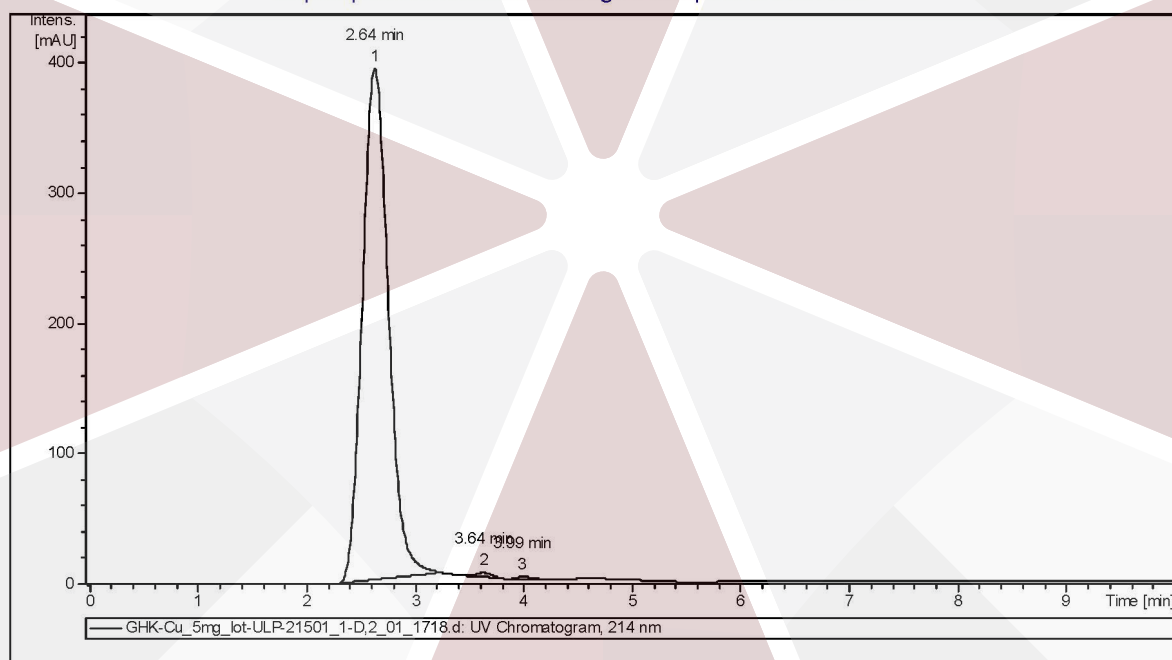
# Certificate of Analysis

## GHK-Cu 5 mg

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

<b>Compound</b>	: GHK-Cu	<b>Client</b>	: UMBRELLA.us
<b>Lot number</b>	: ULP-21501		: 3280 E Hemisphere Loop
<b>Date analyzed</b>	: 2023-01-05		: Tucson, Arizona 85706
<b>Purity %</b>	: 99.3%		
<b>Method</b>	: Mass Spectrometry & UV		

PubChem Chemical ID: 9831891  
<https://pubchem.ncbi.nlm.nih.gov/compound/9831891>



PEAK LIST	Number of detected peaks: 3		
Time (min)	Area	%Area	
2.64	6.52E+03	99.3	GHK-Cu
3.64	3.21E+01	0.5	
3.99	1.67E+01	0.3	

Analysis Performed by  
 Ken Pendarvis, ChE  
 Analytical Chemist  
 MZ BioLabs

Peak identification confirmed by mass spectrum evaluation.  
 Peak purity confirmed using UV detection  
 Expected mass: 340.2 g  
 Measured mass: 340.2 g  
 Molecular weight confirmed

Note: Injectable peptides 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.



2023-01-05