

# Certificate of Analysis

## GHK Copper

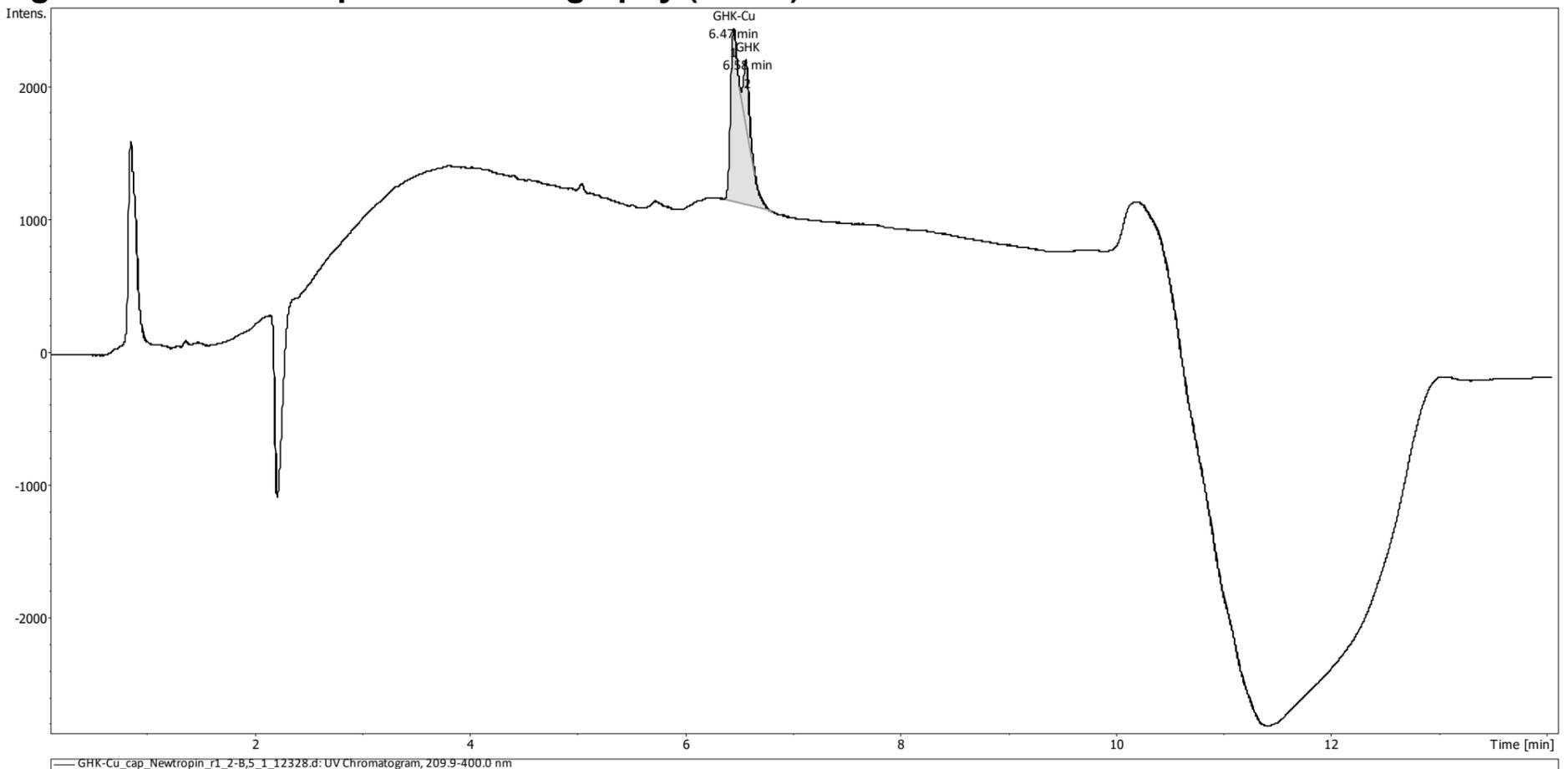
copper;(2S)-6-amino-2-[[[(2S)-2-[(2-aminoacetyl)amino]-3-(1H-imidazol-5-yl)propanoyl]amino]hexanoate

**Compound** : **GHK-Cu** **Client** : **Newtropin**  
**Lot number** : **634875**  
**Analysis date** : **2025-05-20**  
**Quantity** : **2.04 mg/capsule**  
**Method** : **HPLC-UV-MS**

PubChem CID: 71587328

<https://pubchem.ncbi.nlm.nih.gov/compound/71587328>

### High Performance Liquid Chromatography (HPLC) UV



**GHK Cu detected at 6.47 minutes.**

Background peaks due to capsule filler

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

#### Quantification by HPLC-UV

Replicates	mg/capsule
GHK-Cu_cap_r1	1.95
GHK-Cu_cap_r2	2.02
GHK-Cu_cap_r3	2.14
<b>Average mg/capsule</b>	<b>2.04</b>

Analysis Performed by  
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2025-05-30



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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

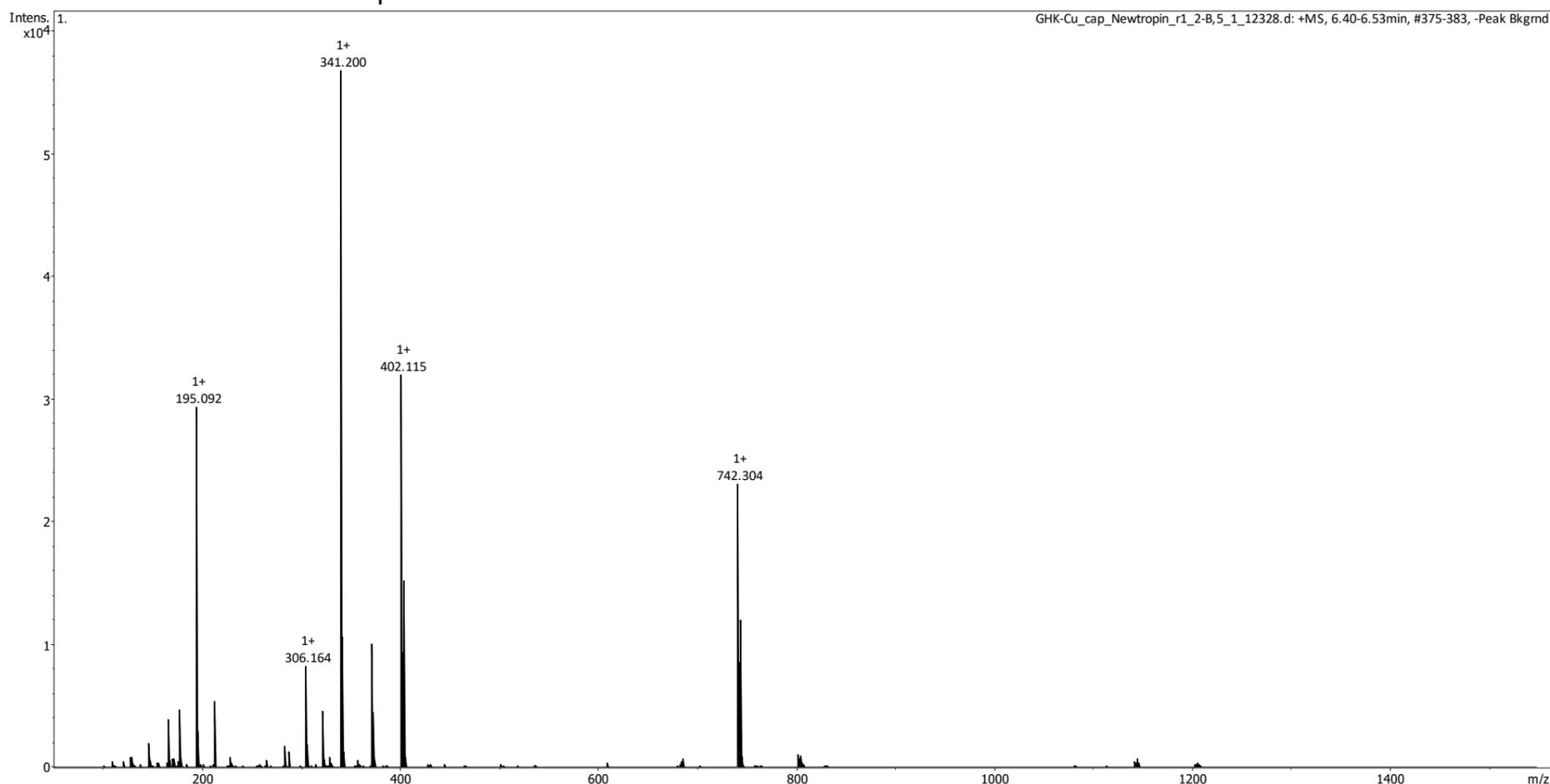
Measured monoisotopic mass : 402.12 Da

**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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