

Lot Number: **IWR-1876419-P**  
 Client Name: **Iron Within Research**  
 Identity: **[www.ironwithinresearch.com](http://www.ironwithinresearch.com)**

Received Date: **04/21/2026**  
 Analysis Conducted: **04/16/2026**  
 Searchable via: **[horizonanalytical.com](http://horizonanalytical.com)**

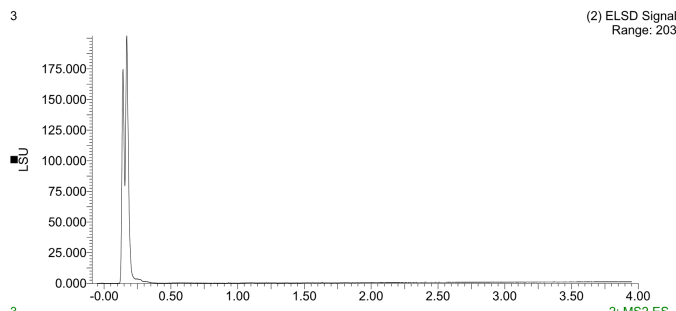
|             |                         |
|-------------|-------------------------|
| Compound:   | GHK-Cu                  |
| Lot:        | IWR-1876419-P           |
| Appearance: | Blue Lyophilized Powder |

|             |                                                                 |
|-------------|-----------------------------------------------------------------|
| CAS:        | 89030-95-5                                                      |
| Formula:    | C <sub>14</sub> H <sub>23</sub> CuN <sub>6</sub> O <sub>4</sub> |
| Mol Weight: | ~402.92 g/mol                                                   |

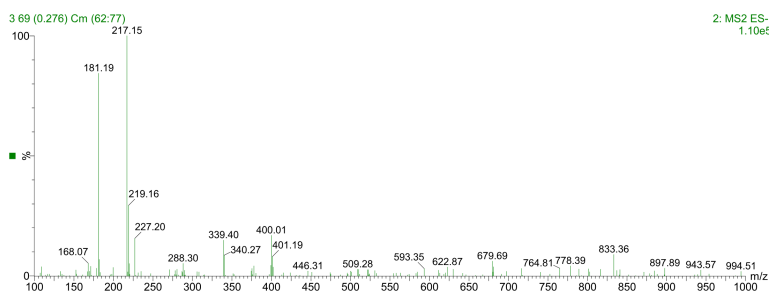
Pubchem CID: 71587328

Qualitative and Quantitative chemical analysis by Ultra High Performance Liquid Chromatography with Mass Spectrometry

|                | Specification | Result | Scan to Validate:                                                                   |
|----------------|---------------|--------|-------------------------------------------------------------------------------------|
| Compound Test: | GHK-Cu        | GHK-Cu |  |
| Quantity:      | 50mg          | 49.7mg |                                                                                     |
| Purity:        | >98%          | 99.58% |                                                                                     |



UPLC



MS

**Aleksey Yevtodiyyenko PhD**  
 Research and Formulation Chemist

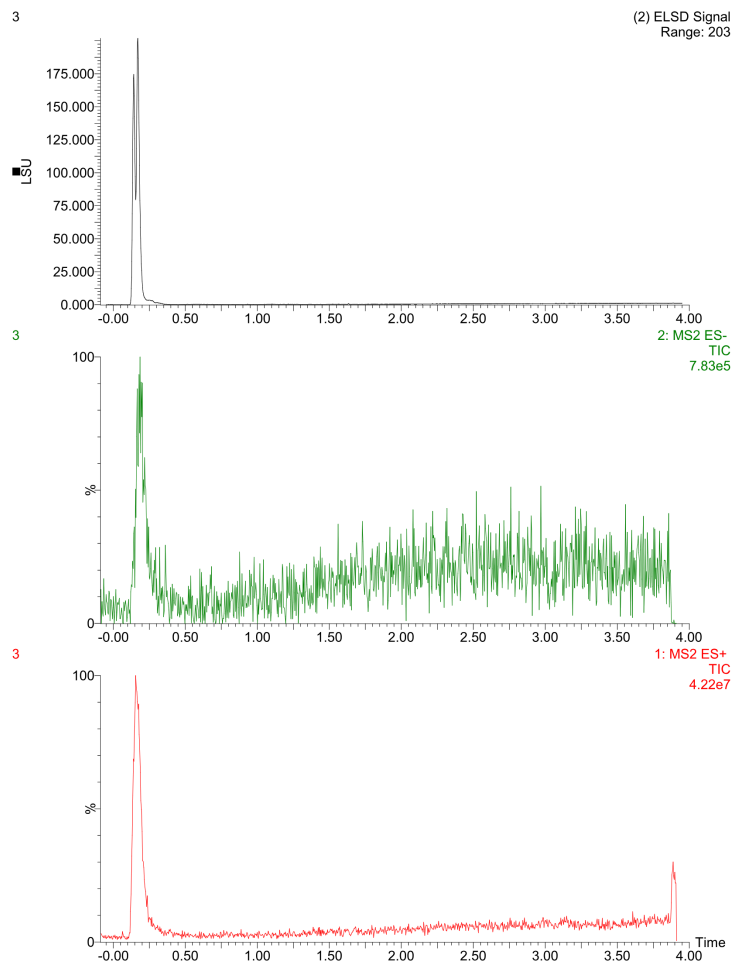


This purity analysis was conducted using UPLC/MS under standard laboratory conditions, following validated analytical protocols to ensure accurate and reliable results. This analysis is intended for informational and research applications.

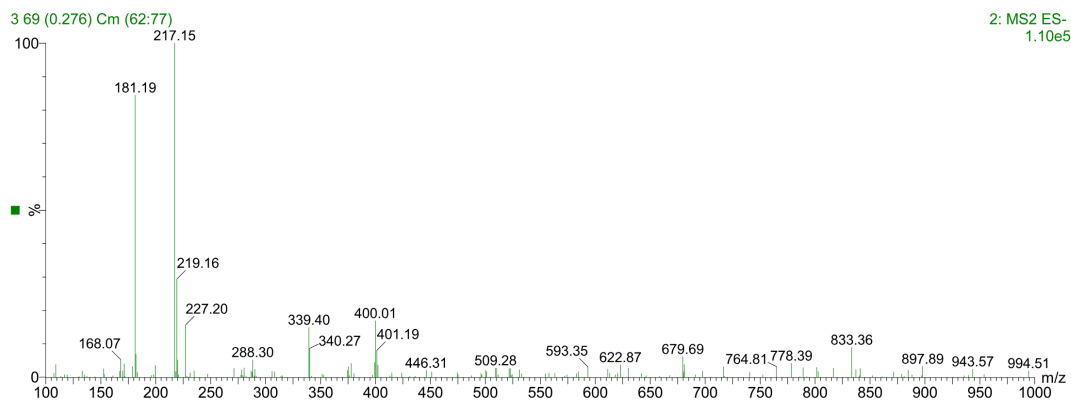
Lot Number: IWR-1876419-P  
Client Name: Iron Within Research  
Identity: [www.ironwithinresearch.com](http://www.ironwithinresearch.com)

Received Date: 04/21/2026  
Analysis Conducted: 04/16/2026  
Searchable via: [horizonanalytical.com](http://horizonanalytical.com)

GHK-Cu (50mg) • Pubchem CID: 71587328  
Ultra High Performance Liquid Chromatography (UPLC)



Mass Spectrometry (MS)



Lot Number: **IWR-7751103-P**  
 Client Name: **Iron Within Research**  
 Identity: **[www.ironwithinresearch.com](http://www.ironwithinresearch.com)**

Received Date: **04/21/2026**  
 Analysis Conducted: **04/16/2026**  
 Searchable via: **[horizonanalytical.com](http://horizonanalytical.com)**

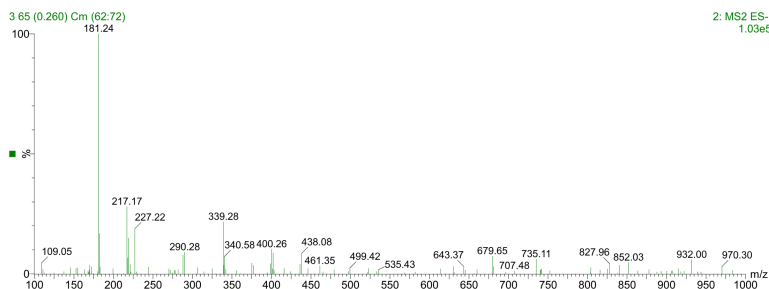
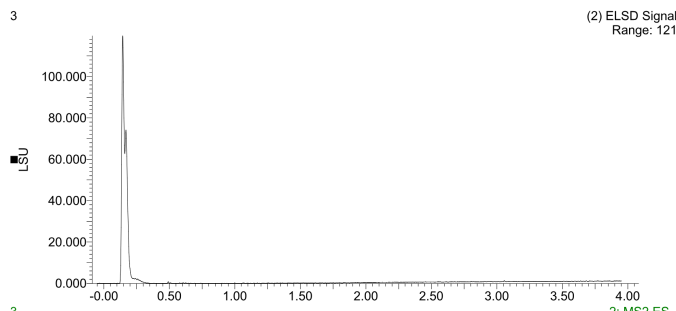
|             |                         |
|-------------|-------------------------|
| Compound:   | GHK-Cu                  |
| Lot:        | IWR-7751103-P           |
| Appearance: | Blue Lyophilized Powder |

|             |                                                                 |
|-------------|-----------------------------------------------------------------|
| CAS:        | 89030-95-5                                                      |
| Formula:    | C <sub>14</sub> H <sub>23</sub> CuN <sub>6</sub> O <sub>4</sub> |
| Mol Weight: | ~402.92 g/mol                                                   |

Pubchem CID: 71587328

Qualitative and Quantitative chemical analysis by Ultra High Performance Liquid Chromatography with Mass Spectrometry

|                | Specification | Result | Scan to Validate:                                                                   |
|----------------|---------------|--------|-------------------------------------------------------------------------------------|
| Compound Test: | GHK-Cu        | GHK-Cu |  |
| Quantity:      | 100mg         | 98mg   |                                                                                     |
| Purity:        | >98%          | 99.47% |                                                                                     |



**Aleksey Yevtodiyenko PhD**  
Research and Formulation Chemist

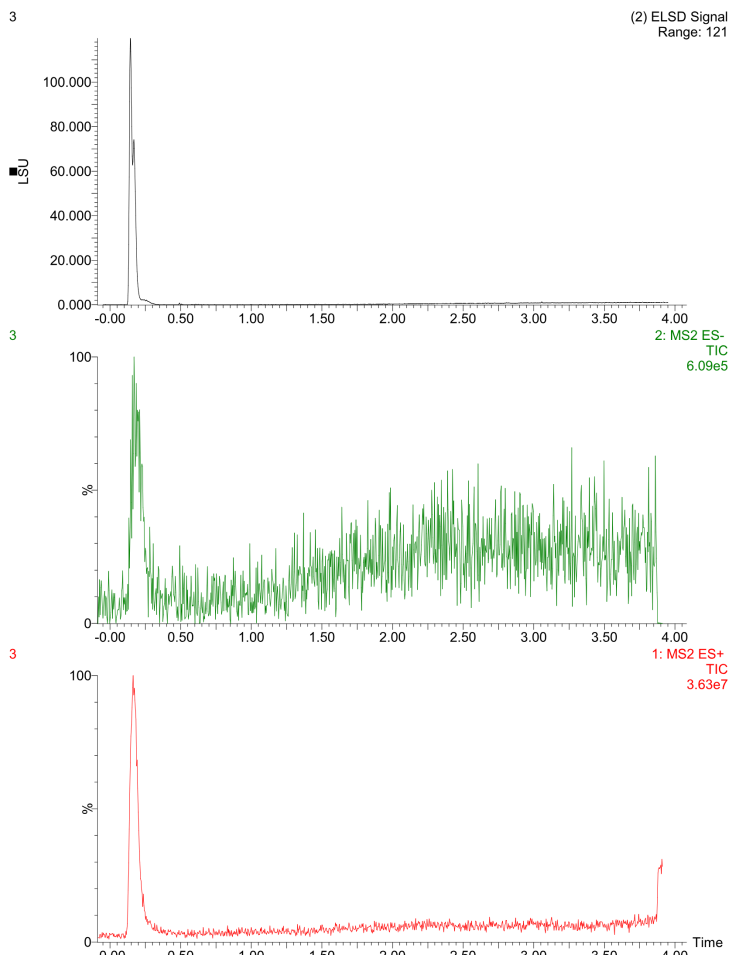


This purity analysis was conducted using UPLC/MS under standard laboratory conditions, following validated analytical protocols to ensure accurate and reliable results. This analysis is intended for informational and research applications.

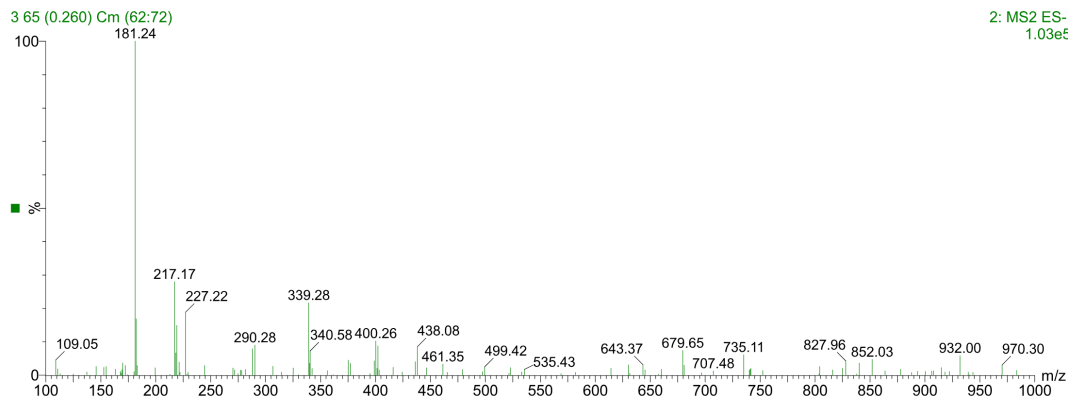
Lot Number: IWR-7751103-P  
Client Name: Iron Within Research  
Identity: [www.ironwithinresearch.com](http://www.ironwithinresearch.com)

Received Date: 04/21/2026  
Analysis Conducted: 04/16/2026  
Searchable via: [horizonanalytical.com](http://horizonanalytical.com)

GHK-Cu (100mg) • Pubchem CID: 71587328  
Ultra High Performance Liquid Chromatography (UPLC)



Mass Spectrometry (MS)





Summit BioAnalytics | Nassau, The Bahamas | lab@summitbioanalytics.com |  
summitbioanalytics.com

TESTED FOR

Iron Within Research

SAMPLE

GHK-Cu — 100 mg

PASS

BATCH #

IWR-2607-  
GHK100

PURITY

99.21%

MASS

102.01 mg

IDENTITY

Confirmed

COA #:

SBA-26-0037

Method:

Full QC Panel

Lot Number:

IWR-2607-GHK100

Analysis Date:

2026-08-02

Labeled Content:

100 mg

Date Received:

2026-07-29

Appearance:

White lyophilized  
powder, intact seal



SCAN TO VERIFY



Identity



Purity



Endotoxins



Fentanyl Free



VIAL CAP

White

#E8E8EA

CLOSURE AS  
RECEIVED

| Test                       | Specification | Result       |
|----------------------------|---------------|--------------|
| Identity                   | GHK-Cu        | Confirmed    |
| Purity (HPLC)              | >= 98.0%      | 99.21%       |
| Content (gross)            | Report only   | 102.01 mg    |
| Fentanyl Screen (LC-MS/MS) | Not detected  | Not detected |
| Endotoxins (LAL)           | Report Result | 0.02 EU/mL   |

| Test                         | Specification  | Result                     |
|------------------------------|----------------|----------------------------|
| Sterility Screen (rapid PCR) | No growth      | No growth                  |
| Heavy Metals (ICP-MS)        | ICH Q3D limits | All analytes within limits |

Qualitative and quantitative chemical analysis by RP-HPLC with UV detection; identity confirmed by LC-MS. Fentanyl screening by targeted LC-MS/MS. Sterility by rapid nucleic-acid amplification — a screening method, not compendial sterility per USP <71>. Full methodology available on request.

Kasey Malganus

Kasey Malganus  
Lab Director  
2026-08-02

COA #: SBA-26-0037  
Access Code: 5VLGQZ7J  
Analyst: R. Whitfield  
Verify: [summitbioanalytics.com/verify](https://summitbioanalytics.com/verify)  
Issued: 2026-08-02

Summit BioAnalytics | Nassau, The Bahamas | [lab@summitbioanalytics.com](mailto:lab@summitbioanalytics.com)

This certificate relates only to the item tested, as received. Research use only — not for human or veterinary use. A not-detected screening result describes this sample only and is not a statement about any other unit or lot.



Summit BioAnalytics | Nassau, The Bahamas | lab@summitbioanalytics.com |  
summitbioanalytics.com

TESTED FOR

Iron Within Research

SAMPLE

GHK-Cu — 50 mg

PASS

BATCH #

IWR-2607-  
GHK50

PURITY

99.65%

MASS

52.34 mg

IDENTITY

Confirmed

COA #:

SBA-26-0038

Method:

Full QC Panel

Lot Number:

IWR-2607-GHK50

Analysis Date:

2026-08-02

Labeled Content:

50 mg

Date Received:

2026-07-29

Appearance:

White lyophilized  
powder, intact seal



SCAN TO VERIFY



Identity



Purity



Endotoxins



Fentanyl Free



VIAL CAP

White

#E8E8EA

CLOSURE AS  
RECEIVED

| Test                       | Specification | Result       |
|----------------------------|---------------|--------------|
| Identity                   | GHK-Cu        | Confirmed    |
| Purity (HPLC)              | >= 98.0%      | 99.65%       |
| Content (gross)            | Report only   | 52.34 mg     |
| Fentanyl Screen (LC-MS/MS) | Not detected  | Not detected |
| Endotoxins (LAL)           | Report Result | 0.11 EU/mL   |

| Test                         | Specification  | Result                     |
|------------------------------|----------------|----------------------------|
| Sterility Screen (rapid PCR) | No growth      | No growth                  |
| Heavy Metals (ICP-MS)        | ICH Q3D limits | All analytes within limits |

Qualitative and quantitative chemical analysis by RP-HPLC with UV detection; identity confirmed by LC-MS. Fentanyl screening by targeted LC-MS/MS. Sterility by rapid nucleic-acid amplification — a screening method, not compendial sterility per USP <71>. Full methodology available on request.

Kasey Malganius

Kasey Malganius  
Lab Director  
2026-08-02

COA #: SBA-26-0038  
Access Code: 44QNS46T  
Analyst: R. Whitfield  
Verify: [summitbioanalytics.com/verify](https://summitbioanalytics.com/verify)  
Issued: 2026-08-02

Summit BioAnalytics | Nassau, The Bahamas | [lab@summitbioanalytics.com](mailto:lab@summitbioanalytics.com)

This certificate relates only to the item tested, as received. Research use only — not for human or veterinary use. A not-detected screening result describes this sample only and is not a statement about any other unit or lot.