

# Certificate of Analysis

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## Sample Identification

**Sample Name** GHK-Cu 100 mg  
**Batch Number** CPT-CU100-20260804-003  
**Date Published** 2026-09-15 13:25

## Results for LYO-0862

| Peptides                                                                                           | Result  | Unit  | Uncertainty | Acceptable Range |
|----------------------------------------------------------------------------------------------------|---------|-------|-------------|------------------|
| GHK-Cu Assay<br>Peptide Screening 0.1% TFA                                                         | 94.4    | mg    | [± 0.5]     |                  |
| GHK-Cu Purity<br>Peptide Screening 0.1% TFA                                                        | > 99.8  | %     |             |                  |
| GHK-Cu Identification by<br>Spectrum (FTIR)<br>Peptide Screening 0.1% TFA                          | 987     |       | [± 5]       |                  |
| GHK-Cu Identification by RT<br>Peptide Screening 0.1% TFA                                          | 0.989   |       | [± 0.005]   |                  |
| Microbiology                                                                                       | Result  | Unit  | Uncertainty | Acceptable Range |
| Bacterial Endotoxin Chromgenic<br>USP<85>/ Eur. Ph. 2.6.14. Bacterial<br>Endotoxin Chromgenic Test | < 0.001 | EU/mg |             |                  |

|                                                                                   |                                     |                                 |  |
|-----------------------------------------------------------------------------------|-------------------------------------|---------------------------------|--|
|  | <b>Method Specification</b>         |                                 |  |
| <b>Determination of identity, content and purity of GHK/GHK-Cu</b>                |                                     |                                 |  |
| <i>Document number</i><br><br>GHK_008_2026                                        | <i>Superseded document</i><br><br>- | <i>Number of pages</i><br><br>4 |  |

## 1. Content Assessment

### 1.1. Instrumentation

| Module            | Name                 | Serial Number |
|-------------------|----------------------|---------------|
| System Controller | Shimadzu CBM-40 Lite | L221226351398 |
| Degassing Unit    | Shimadzu DGU-403     | NA            |
| Pump              | Shimadzu LC-40B XR   | L22146350580  |
| Autosampler       | Shimadzu SIL-40C XR  | L22216351622  |
| Colum Thermostat  | Shimadzu CTO-40S     | L22236351602  |
| PDA Detector      | Shimadzu SPD-M40     | L22276352808  |
| SQ MS Detector    | Shimadzu LCMS-2050   | O12476200760  |

### 1.2. Chromatographic conditions

| Chromatographic conditions |                                                        |
|----------------------------|--------------------------------------------------------|
| Eluent A                   | 10 mM Ammonium Formate in ACN (HPLC, Gradient Grade)   |
| Eluent B                   | 10 mM Ammonium Formate in Water (HPLC, Gradient Grade) |
| Flow rate                  | 0.6 mL/min                                             |
| Program                    | Gradient elution                                       |
| Injection volume           | 2 µL                                                   |
| Colum Temperature          | 40°C                                                   |
| Column                     | Merck SeQuant ZIC-HILIC 150x2.1mm 3.5µm                |
| Detection wavelength       | 225nm                                                  |

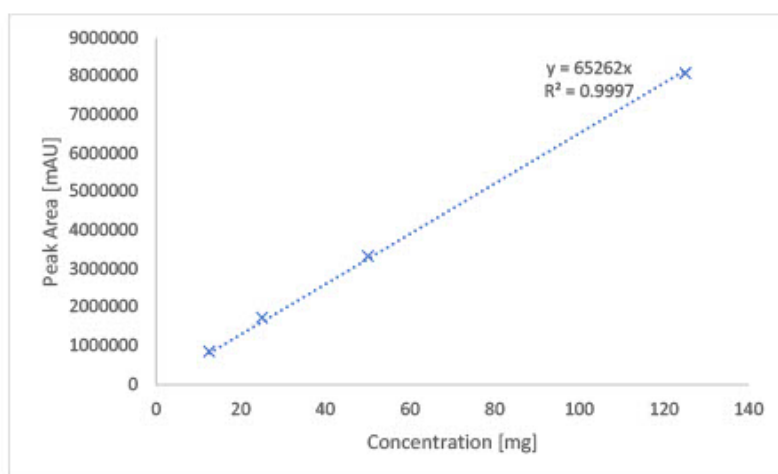
| Gradient Program |       |       |
|------------------|-------|-------|
| Time [min]       | A [%] | B [%] |
| 2                | 100   | 0     |
| 18               | 5     | 95    |
| 20               | 5     | 95    |
| 22               | 100   | 0     |
| 30               | end   |       |

### 1.3. Sample preparation

Whole amount of container was dissolved in 2mL of water (LCMS Grade). 100 µL of sample was transferred to HPLC vial and diluted by 900 µL water (LCMS Grade) and submitted for analysis.

### 1.4. Calibration curve

| Calibration curve detail     |                   |
|------------------------------|-------------------|
| Quantitative method          | External Standard |
| Calibration Type             | Linear            |
| Number of calibration points | 4                 |
| Force through Zero           | Disabled          |
| Weighting Method             | None              |



## 2. Purity assessment

### 2.1 Instrumentation

| Module            | Name                 | Serial Number |
|-------------------|----------------------|---------------|
| System Controller | Shimadzu CBM-40 Lite | L221226351398 |
| Degassing Unit    | Shimadzu DGU-403     | NA            |
| Pump              | Shimadzu LC-40B XR   | L22146350580  |
| Autosampler       | Shimadzu SIL-40C XR  | L22216351622  |
| Colum Thermostat  | Shimadzu CTO-40S     | L22236351602  |
| PDA Detector      | Shimadzu SPD-M40     | L22276352808  |
| SQ MS Detector    | Shimadzu LCMS-2050   | O12476200760  |

### 2.2 Chromatographic conditions

| Chromatographic conditions |                                                        |
|----------------------------|--------------------------------------------------------|
| Eluent A                   | 10 mM Ammonium Formate in ACN (HPLC, Gradient Grade)   |
| Eluent B                   | 10 mM Ammonium Formate in Water (HPLC, Gradient Grade) |
| Flow rate                  | 0.6 mL/min                                             |
| Program                    | Gradient elution                                       |
| Injection volume           | 2 µL                                                   |
| Colum Temperature          | 40°C                                                   |
| Column                     | Merck SeQuant ZIC-HILIC 150x2.1mm 3.5µm                |
| Detection wavelength       | 225nm                                                  |

| Gradient Program |       |       |
|------------------|-------|-------|
| Time [min]       | A [%] | B [%] |
| 2                | 100   | 0     |
| 18               | 5     | 95    |
| 20               | 5     | 95    |
| 22               | 100   | 0     |
| 30               | end   |       |

### 2.3 Purity assesment

Purity of compound assesed by area normalization method, comparing area of each peak to sum of area of all peaks detected at wavelenght of 225 nm.

# Analysis Report



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Analytical services

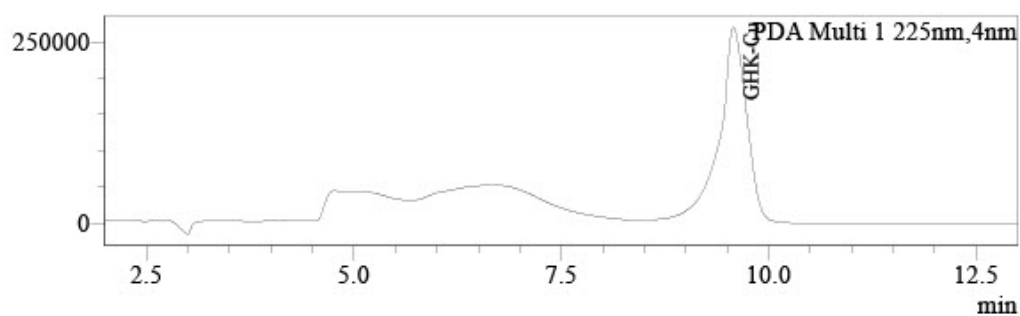
## Analysis of quantity and purity of active ingredient by UHPLC with UV detection

### Sample Information

Injection Volume : 2  
Data File : LYO-0862\_008.lcd  
Method File : Peptides HILIC\_A.1cm  
Date Acquired : 9/11/2026 5:53:57 PM

### Chromatogram

uAU



### Peak Table

| PDA Ch1 225nm |           |         |        |      |         |
|---------------|-----------|---------|--------|------|---------|
| Name          | Ret. Time | Area    | Conc.  | Unit | Area%   |
| GHK-Cu        | 9.574     | 6151731 | 94.366 | mg/L | 100.000 |
|               |           | 6151731 |        |      | 100.000 |

### Peak Table

# Endotoxin Determination Report

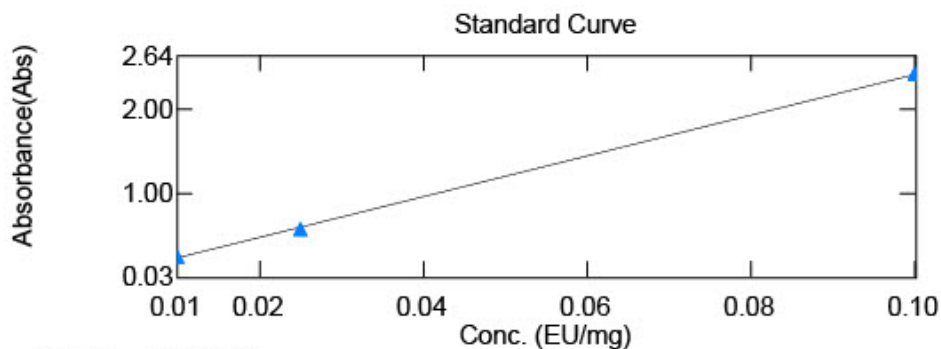


## File Information

Filename: C:\UVVis-Data\Data\File\_260910\_110406.vqud  
Date/Time: 09/10/2026 11:59:39 AM

## Instrument Information

Instrument Type: UV-1900 Series  
Model (S/N): UV-1900i (A12536253123)



$$y = 24.1316x + 0.00350132$$
$$r^2 = 0.99988$$

|    | Sample Name | Conc  | Raw_WL545.0 | Dilution Rate |
|----|-------------|-------|-------------|---------------|
| 1  | LYO-0838    | 0.119 | 0.1471      | 20.00         |
| 2  | LYO-0839    | 2.461 | 1.4880      | 40.00         |
| 3  | LYO-0840    | 0.120 | 0.1481      | 20.00         |
| 4  | LYO-0841    | 0.123 | 0.1516      | 20.00         |
| 5  | LYO-0842    | 0.145 | 0.1787      | 20.00         |
| 6  | LYO-0843    | 0.119 | 0.1469      | 20.00         |
| 7  | LYO-0844    | 0.634 | 0.7689      | 20.00         |
| 8  | LYO-0845    | 2.332 | 1.4106      | 40.00         |
| 9  | LYO-0846    | 0.076 | 0.0947      | 20.00         |
| 10 | LYO-0847    | 1.766 | 1.0689      | 40.00         |
| 11 | LYO-0848    | 0.062 | 0.0779      | 20.00         |
| 12 | LYO-0849    | 0.081 | 0.1009      | 20.00         |
| 13 | LYO-0850    | 2.660 | 1.6081      | 40.00         |
| 14 | LYO-0851    | 1.122 | 1.3567      | 20.00         |
| 15 | LYO-0852    | 0.081 | 0.1015      | 20.00         |
| 16 | LYO-0853    | 0.657 | 0.7958      | 20.00         |
| 17 | LYO-0854    | 0.637 | 0.7720      | 20.00         |
| 18 | LYO-0855    | 2.207 | 1.3349      | 40.00         |
| 19 | LYO-0856    | 0.076 | 0.0951      | 20.00         |
| 20 | LYO-0857    | 0.080 | 0.1004      | 20.00         |

|    | Sample Name | Conc  | Raw_WL545.0 | Dilution Rate |
|----|-------------|-------|-------------|---------------|
| 21 | LYO-0858    | 0.068 | 0.0853      | 20.00         |
| 22 | LYO-0859    | 0.072 | 0.0906      | 20.00         |
| 23 | LYO-0860    | 0.081 | 0.1008      | 20.00         |
| 24 | LYO-0861    | 2.603 | 1.5736      | 40.00         |
| 25 | LYO-0862    | 0.064 | 0.0813      | 20.00         |
| 26 | LYO-0863    | 0.079 | 0.0985      | 20.00         |
| 27 | LYO-0864    | 0.070 | 0.0877      | 20.00         |
| 28 | LYO-0865    | 0.362 | 0.0908      | 100.00        |
| 29 | LIQ-0068    | 0.007 | 0.1667      | 1.00          |

## Responsibles



**Mr. Ján Galbavý**  
*CEO*

Analysis results relate only to the samples tested.

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