

CERTIFICATE OF ANALYSIS

Myotrope Peptides Inc. • Quality Control Department • Fort Lauderdale, FL, USA • qualitycontrol@myotrope.com

SAMPLE IDENTIFICATION

| Sample Name   | Batch Number | Date Published | Lab Reference      |
|---------------|--------------|----------------|--------------------|
| GHK-Cu 100 mg | 2026319      | 05/14/2026     | QC-GHKCu-100mg-319 |

RESULTS — PEPTIDE IDENTITY, CONTENT & PURITY

| Parameter                  | Result           | Unit | Uncertainty | Method / Note               |
|----------------------------|------------------|------|-------------|-----------------------------|
| GHK-Cu Identification (MS) | Confirmed (1000) | —    | ± 10        | ESI-MS Spectrum             |
| GHK-Cu Assay (Content)     | 98.4             | mg   | ± 0.4       | HPLC External Standard      |
| GHK-Cu Identification (RT) | 0.995            | —    | ± 0.005     | HPLC Retention Time         |
| GHK-Cu Purity (HPLC)       | > 99.8           | %    | ± 0.2       | Area Normalization @ 214 nm |

ADDITIONAL TESTS

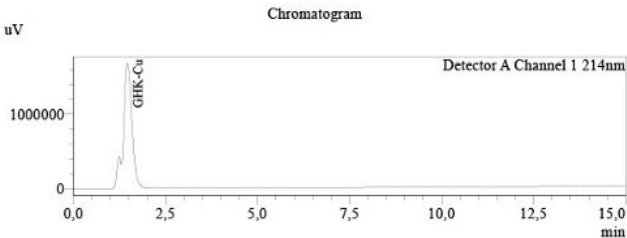
| Test                            | Result       | Unit  | Limit   | Method                         |
|---------------------------------|--------------|-------|---------|--------------------------------|
| Total Aerobic Microbial Count   | Not detected | CFU/g | ≥ 1000  | USP <61>                       |
| Total Yeast and Mold Count      | Not detected | CFU/g | ≥ 100   | USP <61>                       |
| Bacterial Endotoxin             | < 0.001      | EU/mg | > 0.5   | USP <85> Chromogenic LAL       |
| Heavy Metals (As, Cd, Pb, etc.) | Not detected | ppm   | Various | Elemental Impurities Screening |

CONCLUSION: All tested parameters meet the specifications. The batch is approved for research use only.

ANALYTICAL DATA — PEAK TABLE (HPLC)

The following peak table confirms identity and high purity of the batch.

| Detector A Channel 1 214 nm |                 |        |      |         |
|-----------------------------|-----------------|--------|------|---------|
| Peak                        | Ret. Time (min) | Conc.  | Unit | Area %  |
| 1 (Main)                    | 1.479           | 98.400 | mg   | 100.000 |
| Total                       |                 |        |      | 100.000 |



METHOD SPECIFICATION — Content & Purity Assessment

| Module            | Name       | Serial Number |
|-------------------|------------|---------------|
| System Controller | SCL-10ADvp | SN-2026-0147  |
| Degassing Unit    | DGU-14A    | SN-2026-0082  |
| Pump A            | LC-10ADvp  | SN-2026-0094  |
| Pump B            | LC-10ADvp  | SN-2026-0095  |
| Autosampler       | SIL-10ADvp | SN-2026-0514  |
| Column Thermostat | CTO-10ACvp | SN-2026-0371  |
| Detector          | SPD-10ADvp | SN-2026-0338  |

Chromatographic Conditions

| Parameter            | Value                                                 |
|----------------------|-------------------------------------------------------|
| Eluent A             | 0.1% TFA in Water (HPLC, Gradient Grade)              |
| Eluent B             | 0.1% TFA in Acetonitrile (HPLC, Gradient Grade)       |
| Flow Rate            | 0.4 mL/min                                            |
| Injection Volume     | 0.5 µL                                                |
| Column Temperature   | 60°C                                                  |
| Column               | Phenomenex Biozen Peptide Polar C18, 150×2.1 mm, 3 µm |
| Detection Wavelength | 214 nm                                                |

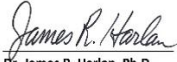
Gradient Program

| Time (min) | A [%] | B [%] |
|------------|-------|-------|
| 2          | 100   | 0     |
| 15         | 75    | 25    |
| 18         | 75    | 25    |
| 20         | 100   | 0     |
| 25         | end   |       |

Sample Preparation

Whole amount of container was dissolved in 2 mL of water (HPLC, Gradient Grade). Aliquote part of 1 mL was dispensed into HPLC vial for analysis.

AUTHORIZATION & APPROVAL

|                                                                                                                                |                                                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tested & Analyzed by:<br><br>QUALITY CONTROL | Approved by (QA):<br><br>Dr. James R. Harlan, Ph.D.<br>Quality Assurance Director |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|

DISCLAIMER: This document is for research purposes only. Not for human or veterinary use. Results relate only to the sample tested. Store at -20°C in a dry, dark place.

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