Mesa Research

CERTIFICATE OF ANALYSIS · LOT RELEASE

mesaresearchco.com

CERTIFICATE NO.
PL-26-00185

VERIFICATION KEY
L484Q332

Scan or enter both at prymalabnet/testing/verify

CERTIFICATE OF ANALYSIS · LOT RELEASE · ISSUED FOR MESA RESEARCH

GHK-Cu 50 mg

Lot PL-2610-067 · Lyophilized powder · Label claim 50 mg per vial

TESTED IN-HOUSE BY PRYMALAB

In-house analytical result, not an independent third-party test

LOT / BATCH NUMBER	DATE MADE	DATE OF ANALYSIS	DATE ISSUED
PL-2610-067	2026-10-02	2026-10-05	2026-10-19

RETEST / EXPIRY	UNITS IN LOT / SAMPLED	STORAGE	CERTIFICATE TYPE
2028-10-02	314 / 2	−20 °C, desiccated, dark	Lot COA, 2 pages

COMPOUND	CAS NUMBER	MOLECULAR FORMULA	THEORETICAL MASS (AVG.)
GHK-Cu Copper tripeptide-1 ; Gly-His-Lys · Cu(II)	8903095-5	$C_{14}H_{22}CuN_6O_4$	401.91 Da

SEQUENCE
GHK–Cu(II)

PURITY · RP-HPLC, AREA %
99.76%
Specification ≥ 99.0% · main peak at 10.67 min

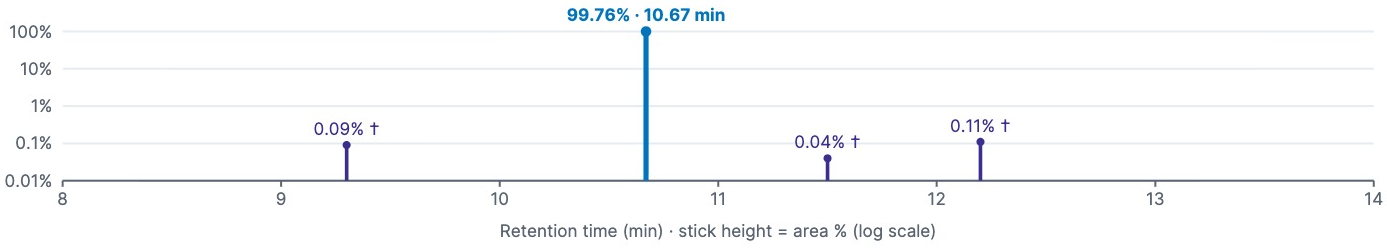
IDENTITY · OBSERVED MASS
401.89 Da
Theoretical 401.91 Da · −0.02 Da (50 ppm)

OVERALL CONCLUSION
PASS
Meets every specification for the tests performed

TEST	METHOD	SPECIFICATION	RESULT	CONCLUSION
Identity (mass)	LC-MS, ESI positive	Theoretical ± 1.0 Da	401.89 Da	PASS
Purity	RP-HPLC, UV 214 nm, area%	≥ 99.0%	99.76%	PASS
Largest impurity	RP-HPLC, area%	≤ 1.0 %	0.11 % (RT 12.20)	PASS
Water content	Karl Fischer	≤ 5.0%	2.91%	PASS
Bacterial endotoxin	LAL, kinetic	≤ 5.0 EU/mg	0.210 EU/mg	PASS
Sterility	USP <71>, 14-day	No growth	No growth	PASS

1 HPLC CHROMATOGRAM

Data file: PL-2610-067-HPLC.raw · Column C18, 150 × 4.6 mm · UV 214 nm



Peak plot drawn from the integrated peak table (area %, log scale); it is not the instrument trace, which is retained in PL-2610-067-HPLC.raw. † Nominal reference retention time for the assigned impurity; the main-peak RT is observed in this lot.

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For laboratory research use only. Not for human or veterinary use.

2 HPLC METHOD · PL-2610-067-HPLC.RAW

INSTRUMENT Waters Alliance e2695	DATA SYSTEM Empower 3	DETECTOR UV absorbance
DETECTION WAVELENGTH 214 nm	COLUMN C18, 150 × 4.6 mm, 3.5 µm	MOBILE PHASE A 0.1% TFA in water
MOBILE PHASE B 0.1% TFA in MeCN	GRADIENT 5–95% B over 25 min (linear)	FLOW RATE 1.0 mL/min
COLUMN TEMPERATURE 40 °C	INJECTION VOLUME 10 µL	

3 GRADIENT PROGRAM

TIME (MIN)	% A	% B
0.0	95	5
25.0	5	95

4 PEAK TABLE

PEAK	RT (MIN)	AREA	AREA %
1	9.30 †	—	0.09
2	10.67	—	99.76
3	11.50 †	—	0.04
4	12.20 †	—	0.11
Total		—	100.00

Peaks: 1 free ghk (copper-free); 2 main peak (GHK-Cu); 3 deamidation product; 4 copper-loss product. Area % from the integrated peak table (absolute areas are not part of the lot-release export). † nominal reference RT for the assigned impurity. Purity = main peak area ÷ total integrated area × 100, to two decimals; main peak shaded.

5 IDENTITY BY MASS SPECTROMETRY

INSTRUMENT Waters SQD	IONIZATION / MODE ESI, positive	REFERENCE M/Z (CHARGE) 402.92 (M+H)+
DECONVOLUTED MASS 401.89 Da	THEORETICAL MASS 401.91 Da	DIFFERENCE −0.02 Da (50 ppm)
DATA FILE PL-2610-067-MS.d	ACCEPTANCE Within ± 1.0 Da	

6 ADDITIONAL TESTS

TEST	PERFORMED BY	DATE	REPORT / FILE
Water content (Karl Fischer)	PrymaLab Analytical	2026-10-05	—
Endotoxin (LAL, kinetic)	PrymaLab Analytical	2026-10-05	—
Sterility (USP <71>, day-14 read-out)	PrymaLab Analytical	2026-10-19	—

A test with no row here was not performed on this lot. Outside-laboratory reports, when used, are attached and named below.

7 REVIEW AND APPROVAL

D. Reynolds
Analyst · performed the testing
Date: 2026-10-19

S. Calloway
Reviewer · checked against raw data
Date: 2026-10-19

M. Phelps
Lab Director · approved for release
Date: 2026-10-19

Raw data retained at: Empower 3, project PL-2610, archive PL-ARC-2026; 7 years. Outside laboratory reports attached: None

This certificate applies only to the lot named above and describes the units sampled from it; it is not a guarantee for any other lot. Results were obtained by PrymaLab LLC's own laboratory (PrymaLab Analytical) and are not an independent third-party test unless an outside report is attached. This copy is issued for Mesa Research, a distributor of the lot; the brand shown does not change the laboratory, the method or the results. Reference values (CAS, formula, theoretical mass, sequence) are literature values for the named compound. Authenticity: scan the QR code or enter certificate number PL-26-00185 and key L484Q332 at prymalabnet/testing/verify; any copy that does not match the record shown there is not a PrymaLab certificate. PrymaLab LLC products are supplied for laboratory research use only and not for human or veterinary use.