



pH SOLUTIONS

CERTIFICATE OF ANALYSIS

260903-899-NHS-1

Issued Oct 9, 2026

SAMPLE

GHK-Cu 50mg

Prepared for **BYB Bio LLC** · Lot **BBI-GHK50-20260828-01**

PASS



ISO/IEC 17025:2017 ACCREDITED
A2LA R243 · PJLA Testing #84351 · Zero recalls since 2016

181 W Huntington Dr, Suite 181, Monrovia, CA 91016 · (818)
808-9757

BATCH / LOT	SAMPLE ID	MATRIX	PANELS RUN
BBI-GHK50-20260828-01	260903-899-NHS-1	Peptide	6
RECEIVED	ANALYZED	REPORTED	CLIENT
Sep 3, 2026	—	Oct 9, 2026	BYB Bio LLC

PEPTIDE PURITY

ANALYTE	RESULT	UNIT	LIMIT / METHOD	STATUS
GHK-Cu — purity	99	%	HPLC-UV @ 274 nm	PASS
GHK-Cu — by mass	25.80	%		PASS

ASSAY

ANALYTE	RESULT	UNIT	LIMIT / METHOD	STATUS
Net peptide content	25.80	% w/w		—
Net peptide content — per gram	258	mg/g		—
Net peptide content — per vial	51.60	mg/vial		—

WATER ACTIVITY

ANALYTE	RESULT	UNIT	LIMIT / METHOD	STATUS
Water activity	0.05	aw	< 0.65	PASS

MICROBIALS

ANALYTE	RESULT	UNIT	LIMIT / METHOD	STATUS
E. Coli	Not Detected		Not detected in 1 g	PASS
Salmonella spp.	Not Detected		Not detected in 1 g	PASS
Aspergillus flavus	Not Detected		Not detected in 1 g	PASS
Aspergillus fumigatus	Not Detected		Not detected in 1 g	PASS
Aspergillus niger	Not Detected		Not detected in 1 g	PASS
Aspergillus terreus	Not Detected		Not detected in 1 g	PASS

HEAVY METALS

Tested on the API lot

ANALYTE	RESULT	UNIT	LIMIT / METHOD	STATUS
Arsenic	Not Detected	ppm	$\leq 1.5 \cdot \text{LOD } 0.0167 \cdot \text{LOQ } 0.05$	PASS
Cadmium	Not Detected	ppm	$\leq 0.2 \cdot \text{LOD } 0.0167 \cdot \text{LOQ } 0.05$	PASS
Lead	Not Detected	ppm	$\leq 0.5 \cdot \text{LOD } 0.0167 \cdot \text{LOQ } 0.05$	PASS
Mercury	Not Detected	ppm	$\leq 0.3 \cdot \text{LOD } 0.0167 \cdot \text{LOQ } 0.05$	PASS

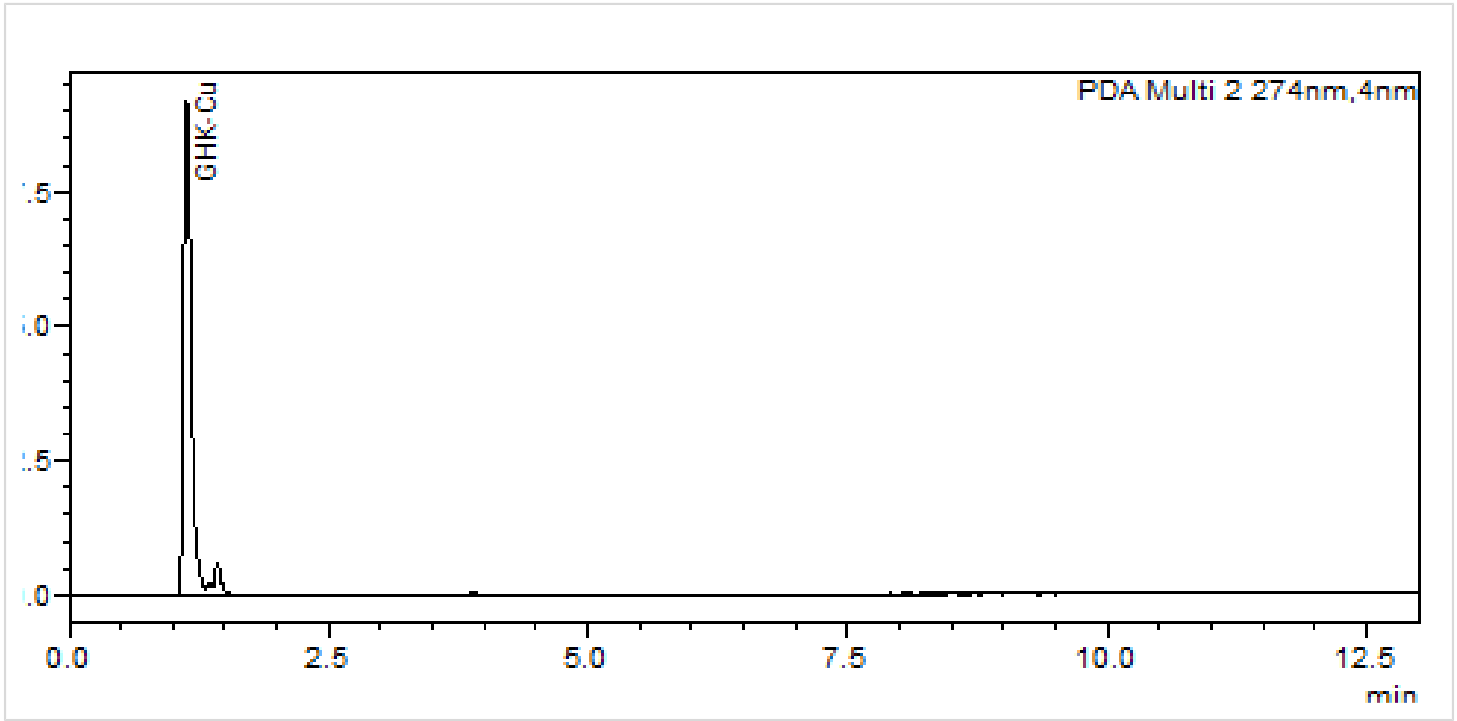
RESIDUAL SOLVENTS

Tested on the API lot

ANALYTE	RESULT	UNIT	LIMIT / METHOD	STATUS
Acetone	Not Detected	ppm	$\leq 5000 \cdot \text{LOD } 0.33 \cdot \text{LOQ } 1$	PASS
Acetonitrile	Not Detected	ppm	$\leq 410 \cdot \text{LOD } 0.33 \cdot \text{LOQ } 1$	PASS
Benzene	Not Detected	ppm	$\leq 2 \cdot \text{LOD } 0.33 \cdot \text{LOQ } 1$	PASS
Butane	Not Detected	ppm	$\leq 5000 \cdot \text{LOD } 0.33 \cdot \text{LOQ } 1$	PASS
Chloroform	Not Detected	ppm	$\leq 60 \cdot \text{LOD } 0.33 \cdot \text{LOQ } 1$	PASS
1,2-Dichloroethane	Not Detected	ppm	$\leq 5 \cdot \text{LOD } 0.33 \cdot \text{LOQ } 1$	PASS
Ethanol	16.6	ppm	$\leq 5000 \cdot \text{LOD } 0.33 \cdot \text{LOQ } 1$	PASS
Ethyl Acetate	Not Detected	ppm	$\leq 5000 \cdot \text{LOD } 0.33 \cdot \text{LOQ } 1$	PASS
Ethyl Ether	Not Detected	ppm	$\leq 5000 \cdot \text{LOD } 0.33 \cdot \text{LOQ } 1$	PASS
Ethylene Oxide	Not Detected	ppm	$\leq 1 \cdot \text{LOD } 0.33 \cdot \text{LOQ } 1$	PASS
Heptane	Not Detected	ppm	$\leq 290 \cdot \text{LOD } 0.33 \cdot \text{LOQ } 1$	PASS
n-Hexane	Not Detected	ppm	$\leq 290 \cdot \text{LOD } 0.33 \cdot \text{LOQ } 1$	PASS
Isopropyl Alcohol	Not Detected	ppm	$\leq 5000 \cdot \text{LOD } 0.33 \cdot \text{LOQ } 1$	PASS
Methanol	Not Detected	ppm	$\leq 3000 \cdot \text{LOD } 0.33 \cdot \text{LOQ } 1$	PASS

Methylene Chloride	Not Detected	ppm	≤ 600 · LOD 0.33 · LOQ 1	PASS
Pentane	Not Detected	ppm	≤ 5000 · LOD 0.33 · LOQ 1	PASS
Propane	Not Detected	ppm	≤ 5000 · LOD 0.33 · LOQ 1	PASS
Toluene	Not Detected	ppm	≤ 890 · LOD 0.33 · LOQ 1	PASS
Total Xylenes	Not Detected	ppm	≤ 2170 · LOD 0.33 · LOQ 1	PASS
Trichloroethylene	Not Detected	ppm	≤ 80 · LOD 0.33 · LOQ 1	PASS
DMF	Not Detected	ppm	≤ 880 · LOD 0.33 · LOQ 1	PASS

CHROMATOGRAM



PH SOLUTIONS LAB INC.

Analysis performed in accordance with ISO/IEC 17025:2017. Results relate only to the sample as submitted. This certificate may not be reproduced except in full without the written approval of the laboratory. The online copy at the address beside is authoritative: if a printed COA disagrees with it, the online copy governs. Questions: info@phsolutionslab.com · (818) 808-9757.



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