



pH SOLUTIONS

CERTIFICATE OF ANALYSIS

260903-899-NHS-2

Issued Sep 29, 2026

SAMPLE

GHK-Cu 100 mg

Prepared for **Astramide** · Lot **NHS-GHK100-20260828-01**

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
NHS-GHK100-20260828-01	260903-899-NHS-2	—	10
RECEIVED	ANALYZED	REPORTED	CLIENT
Sep 3, 2026	—	Sep 29, 2026	Astramide

REPORT INFORMATION

ANALYTE	RESULT	UNIT	LIMIT / METHOD	STATUS
Laboratory certificate number	260903-899-NHS-2			TESTED
Customer certificate identifier	SIM-NHS-GHK100-20260828-01			TESTED
Customer report number	SIM-NHS-GHK100-20260828-01			TESTED
Report date	2026-09-29			TESTED

IDENTITY

ANALYTE	RESULT	UNIT	LIMIT / METHOD	STATUS
Identity	Match			PASS
Expected MW	403.9	g/mol		TESTED
Molecular formula	C ₁₄ H ₂₄ CuN ₆ O ₄			TESTED
CAS	89030-95-5			TESTED

PEPTIDE PURITY

ANALYTE	RESULT	UNIT	LIMIT / METHOD	STATUS
Purity	99 %			PASS
Wavelength (nm)	274 nm			PASS
By mass	25.90 %			TESTED

ASSAY

ANALYTE	RESULT	UNIT	LIMIT / METHOD	STATUS
Net content	100.087 mg/vial			PASS
Appearance	Violet to purple lyophilized powder cake; free of visible particulates			TESTED
Water content (KF)	0.0 %			TESTED
pH	7.0			TESTED

WATER ACTIVITY

ANALYTE	RESULT	UNIT	LIMIT / METHOD	STATUS
Water activity	0.0425 aw			PASS

MICROBIALS

ANALYTE	RESULT	UNIT	LIMIT / METHOD	STATUS
E. Coli	Not Detected			PASS
Salmonella spp.	Not Detected			PASS
Aspergillus flavus	Not Detected			PASS
Aspergillus fumigatus	Not Detected			PASS
Aspergillus niger	Not Detected			PASS
Aspergillus terreus	Not Detected			PASS
Yeast & Mold	Not Detected in 1g			TESTED
Coliforms	Not Detected			PASS
Aerobic Bacteria	Not Detected in 1g			TESTED
Enterobacteriaceae	Not Detected in 1g			TESTED
Microbials panel	PASS			PASS

HEAVY METALS

ANALYTE	RESULT	UNIT	LIMIT / METHOD	STATUS
Arsenic	0.000	ppm		PASS
Cadmium	0.000	ppm		PASS
Lead	0.190782	ppm		TESTED
Mercury	0.000	ppm		PASS
Heavy metals panel	PASS			PASS

RESIDUAL SOLVENTS

ANALYTE	RESULT	UNIT	LIMIT / METHOD	STATUS
Acetone	0.068075	ppm		TESTED
Acetonitrile	40.137793	ppm		TESTED
Ethanol	21.328873	ppm		TESTED
Ethyl Acetate	0.000	ppm		PASS
Isopropyl Alcohol	1.842488	ppm		TESTED
Methanol	0.017606	ppm		TESTED
Toluene	0.000	ppm		PASS
Benzene	0.000	ppm		PASS
Butane	0.000	ppm		PASS
Chloroform	0.000	ppm		PASS
Ethyl Ether	0.000	ppm		PASS
Trichloroethylene	0.000	ppm		PASS
Residual solvents panel	PASS			PASS

ADDITIONAL REPORTED PANEL OUTCOMES

ANALYTE	RESULT	UNIT	LIMIT / METHOD	STATUS
Sterility	Pass			PASS
Mycotoxins	Pass			PASS

CONTENT AND RECOVERY

ANALYTE	RESULT	UNIT	LIMIT / METHOD	STATUS
Recovery	100.087 % nominal			PASS
Component nominal amounts	GHK: 100 mg			TESTED
Net peptide content outcome	Pass			PASS
Net peptide content (mg/g)	259 mg/g			TESTED

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.



SCAN TO VERIFY

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c3RyYW1pZGUiLCJsIjoiTkhlUdISzEwMC0yMDI2
MDgyOC0wMSJ9.QBG_ojE7Jb6NH15RTH5azqB2TbY
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