PrymaLab
PRYMALAB ANALYTICAL · IN-HOUSE LABORATORY
3705 Music Branch Rd, Ashland, KY 41102 · +1 (606) 465-9063 · prymalab.net

CERTIFICATE NO.
PL-26-00197
VERIFICATION KEY
XQ8YDBD6
Scan or enter both at prymalab.net/testing/verify

CERTIFICATE OF ANALYSIS · LOT RELEASE

GKP Blend 70 mg

Lot **PL-2610-079** · Lyophilized co-blend powder · Label claim **70 mg/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-2610-079	2026-10-02	2026-10-05	2026-10-20
RETEST / EXPIRY	**UNITS IN LOT / SAMPLED**	**STORAGE**	**CERTIFICATE TYPE**
2028-10-02	351 / 2	−20 °C, desiccated, dark	Lot COA, 2 pages

COMPOUND
GKP Blend
GHK-Cu + KPV + BPC-157 co-lyophilized blend

CAS NUMBER
89030-95-5 · 137525-51-0 · 67727-97-3

MOLECULAR FORMULA
—

THEORETICAL MASS (AVG.)
401.91 · 1,419.55 · 342.43 Da
(GHK-Cu / BPC-157 / KPV)

COMPOSITION AND SEQUENCES
GHK-Cu: GHK-Cu(II) · **BPC-157:** GEPPPGKPADDAGLV · **KPV:** KPV

PURITY · RP-HPLC, AREA %
99.52%
Lowest component (BPC-157) • specification ≥ 99.0 % for every component

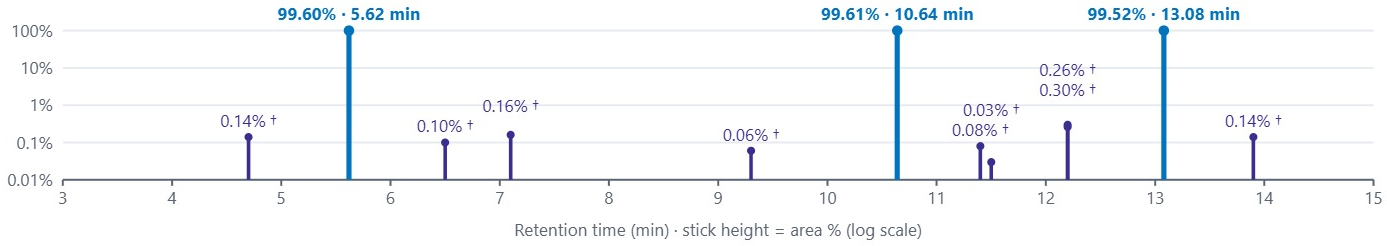
IDENTITY · COMPONENTS CONFIRMED
3 / 3
Components confirmed by LC-MS within ± 1.0 Da: 401.90 / 1,419.47 / 342.42 Da

OVERALL CONCLUSION
PASS
Meets every specification for the tests performed

TEST	METHOD	SPECIFICATION	RESULT	CONCLUSION
GHK-Cu: purity · largest impurity · mass	RP-HPLC 214 nm (area %); LC-MS, ESI+	≥ 99.0 % · ≤ 1.0% · ± 1.0 Da	99.61 % · 0.30 % · 401.90 Da	**PASS**
BPC-157: purity · largest impurity · mass	RP-HPLC 214 nm (area %); LC-MS, ESI+	≥ 99.0 % · ≤ 1.0% · ± 1.0 Da	99.52 % · 0.26 % · 1,419.47 Da	**PASS**
KPV: purity · largest impurity · mass	RP-HPLC 214 nm (area %); LC-MS, ESI+	≥ 99.0 % · ≤ 1.0% · ± 1.0 Da	99.60 % · 0.16% · 342.42 Da	**PASS**
Water content	Karl Fischer	≤ 5.0 %	2.18%	**PASS**
Bacterial endotoxin	LAL, kinetic	≤ 5.0 EU/mg	0.301 EU/mg	**PASS**
Sterility	USP <71>, 14-day	No growth	No growth	**PASS**

1 HPLC CHROMATOGRAM

Data file: PL-2610-079-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-2610-079-HPLC.raw. † Nominal reference retention time for the assigned impurity; the main-peak RT is observed in this lot. Area % is per component (each component main peak + its impurities = 100%).

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

2 HPLC METHOD · PL-2610-079-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	4.70 †	—	0.14
2	5.62	—	99.60
3	6.50 †	—	0.10
4	7.10 †	—	0.16
5	9.30 †	—	0.06
6	10.64	—	99.61
7	11.40 †	—	0.08
8	11.50 †	—	0.03
9	12.20 †	—	0.30
10	12.20 †	—	0.26
11	**13.08**	**—**	**99.52**
12	13.90 †	—	0.14
Total		—	100.00 per component

Main peaks: 2 KPV · 6 GHK-Cu · 11BPC-157; all other peaks are the assigned impurities of the neighbouring component · area % within each component (main + impurities = 100% per component) · † nominal reference RT · 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

DECONVOLUTED MASS
401.90 / 1,419.47 / 342.42 Da

THEORETICAL MASS
401.91 / 1,419.55 / 342.43 Da

ORDER
GHK-Cu / BPC-157 / KPV

DIFFERENCE
−0.01 / −0.08 / −0.01 Da

DATA FILE
PL-2610-079-MS.d

ACCEPTANCE
Within ± 1.0 Da (each component)

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: 2026-10-20

S. Calloway
Reviewer · checked against raw data
Date: 2026-10-20

M. Phelps
Lab Director · approved for release
Date: 2026-10-20

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. Reference values (CAS, formula, theoretical mass, sequence) are literature values for the named compound. Authenticity: scan the QR code or enter certificate number PL-26-00197 and key XQ8YDBD6 at prymalab.net/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.