Keystone

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CERTIFICATE NO.
PL–26–00226

VERIFICATION KEY
YLVSRYJP

Scan or enter both at prymalab.net/testing/verify

CERTIFICATE OF ANALYSIS · LOT RELEASE · ISSUED FOR KEYSTONE

KLOW Blend 80 mg

Lot **PL-2610-112** · Lyophilized co-blend powder · Label claim **80 mg/vial** · Distributed as **KPV / BPC-157 / TB-500 / GHK-Cu 80 mg**

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–2610–112	**2026-10-05**	**2026-10-06**	**2026-10-20**
RETEST / EXPIRY	**UNITS IN LOT / SAMPLED**	**STORAGE**	**CERTIFICATE TYPE**
2028-10-05	**325 / 2**	–20 °C, desiccated, dark	Lot COA, 2 pages

COMPOUND
KLOW Blend
GHK-Cu + BPC-157 + TB-500 + KPV co-lyophilized blend

CAS NUMBER
89030-95-5 · 137525-51-0 · 77591-33-4 · 67727-97-3

MOLECULAR FORMULA
—

THEORETICAL MASS (AVG.)
401.91 · 1,419.55 · 4,963.44 · 342.43 Da (GHK-Cu / BPC-157 / TB-500 / KPV)

COMPOSITION AND SEQUENCES
GHK-Cu: `GHK–Cu(II)` · **BPC-157**: `GEPPPGKPADDAGLV` · **TB-500**: `Ac–43–aa Tbeta4` · **KPV**: `KPV`

PURITY · RP-HPLC, AREA %
99.37%
Lowest component (BPC-157) • specification ≥ 99.0% for every component

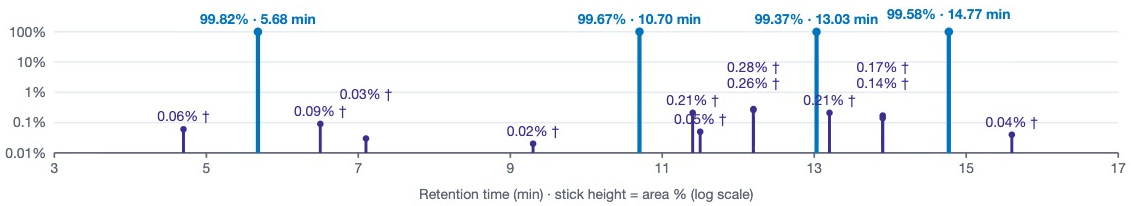
IDENTITY · COMPONENTS CONFIRMED
4 / 4
Components confirmed by LC-MS within ± 1.0 Da: 401.90 / 1,419.53 / 4,963.43 / 342.42 Da

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	99.67% · 0.26% · 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	99.37% · 0.28% · 1,419.53 Da	**PASS**
TB-500: purity · largest impurity · mass	RP-HPLC 214 nm (area%); LC-MS, ESI+	≥ 99.0% · ≤ 1.0% · ± 1.0 Da	99.58% · 0.21% · 4,963.43 Da	**PASS**
KPV: purity · largest impurity · mass	RP-HPLC 214 nm (area%); LC-MS, ESI+	≥ 99.0% · ≤ 1.0% · ± 1.0 Da	99.82% · 0.09% · 342.42 Da	**PASS**
Water content	Karl Fischer	≤ 5.0%	2.79%	**PASS**
Bacterial endotoxin	LAL, kinetic	≤ 5.0 EU/mg	0.469 EU/mg	**PASS**
Sterility	USP <71>, 14-day	No growth	No growth	**PASS**

1 HPLC CHROMATOGRAM

Data file: PL-2610-112-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-2610-112-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%).

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2 HPLC METHOD · PL-2610-112-HPLC.RAW

INSTRUMENT Waters Alliance e2695	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 †	—	0.06
2	5.68	—	99.82
3	6.50 †	—	0.09
4	7.10 †	—	0.03
5	9.30 †	—	0.02
6	10.70	—	99.67
7	11.40 †	—	0.21
8	11.50 †	—	0.05
9	12.20 †	—	0.26
10	12.20 †	—	0.28
11	**13.03**	**—**	**99.37**
12	13.20 †	—	0.21
13	13.90 †	—	0.14
14	13.90 †	—	0.17
15	14.77	—	99.58
16	15.60 †	—	0.04

Main peaks: 2 KPV · 6 GHK-Cu · 11 BPC-157 · 15 TB-500; 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 / 1,419.53 / 4,963.43 / 342.42 Da
THEORETICAL MASS 401.91 / 1,419.55 / 4,963.44 / 342.43 Da	ORDER GHK-Cu / BPC-157 / TB-500 / KPV	DIFFERENCE −0.01 / −0.02 / −0.01 / −0.01 Da
DATA FILE PL-2610-112-MS.d	ACCEPTANCE Within ± 1.0 Da (each component)	

6 ADDITIONAL TESTS

TEST	PERFORMED BY	DATE	REPORT / FILE
Water content (Karl Fischer)	PrymaLab Analytical	2026-10-06	—
Endotoxin (LAL, kinetic)	PrymaLab Analytical	2026-10-06	—
Sterility (USP <71>, day-14 read-out)	PrymaLab Analytical	2026-10-20	—

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. This copy is issued for Keystone, 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-26-00226 and key YLVSRYJP 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.