PrymaLab
PRYMALAB ANALYTICAL · IN-HOUSE LABORATORY
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CERTIFICATE NO.
PL-26-00212
VERIFICATION KEY
2R5MB7JW
Scan or enter both at prymalab.net/testing/verify

CERTIFICATE OF ANALYSIS · LOT RELEASE

HHB Blend 10 mL

Lot PL-2610-096 · Solution · Label claim 10 mL/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-2610-096	2026-10-05	2026-10-06	2026-10-21
RETEST / EXPIRY	**UNITS IN LOT / SAMPLED**	**STORAGE**	**CERTIFICATE TYPE**
2028-10-05	415 / 2	—	Lot COA, 2 pages

COMPOUND	CAS NUMBER	MOLECULAR FORMULA	THEORETICAL MASS (AVG.)
HHB Blend B-vitamin and lipotropic research blend (9 components)	n/a (blend)	Not applicable (blend)	n/a

COMPOSITION AND SEQUENCES

Niacinamide 51.135 mg: mg/vial · **Thiamine HCl 50.552 mg**: mg/vial · **Dexpanthenol 24.282 mg**: mg/vial · **Choline 9.601 mg**: mg/vial · **Inositol 10.019 mg**: mg/vial · **Niacin 5.108 mg**: mg/vial · **Biotin 0.1 mg**: mg/vial · **Folic acid 0.097 mg**: mg/vial · **Riboflavin 0.103 mg**: mg/vial

PURITY · RP-HPLC, AREA %
—
Not applicable: multi-component blend (no single-compound purity); see content

TOTAL CONTENT · HPLC VS STANDARDS
151.0 mg
Per vial • specification 142.8–157.8 mg/vial • identity by co-elution with standards

OVERALL CONCLUSION
PASS
Meets every specification for the tests performed

TEST	METHOD	SPECIFICATION	RESULT	CONCLUSION
Identity	Co-elution with standards	Matches standards	Matches standards	PASS
Total content	HPLC, UV 254 nm vs standards	142.8–157.8 mg/vial	151.0 mg/vial	PASS
Bacterial endotoxin	LAL, kinetic	≤ 5.0 EU/mg	0.037 EU/mg	PASS
Sterility	USP <71>, 14-day	No growth	No growth	PASS
Niacinamide	HPLC 254nm vs standards	Reported	51.135 mg/vial	—
Thiamine HCl	HPLC 254nm vs standards	Reported	50.552 mg/vial	—
Dexpanthenol	HPLC 254nm vs standards	Reported	24.282 mg/vial	—
Choline	HPLC 254nm vs standards	Reported	9.601 mg/vial	—
Inositol	HPLC 254nm vs standards	Reported	10.019 mg/vial	—
Niacin	HPLC 254nm vs standards	Reported	5.108 mg/vial	—
Biotin	HPLC 254nm vs standards	Reported	0.1 mg/vial	—
Folic acid	HPLC 254nm vs standards	Reported	0.097 mg/vial	—
Riboflavin	HPLC 254nm vs standards	Reported	0.103 mg/vial	—

1 HPLC CHROMATOGRAM

Data file: PL-2610-096-HPLC.raw · Column — · UV 254 nm

Blend quantified against reference standards; component amounts are in the results table.

Components identified and quantified against reference standards; amounts are listed in the results table. No peak plot is drawn for this blend.

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

2 HPLC METHOD · PL-2610-096-HPLC.RAW

INSTRUMENT	DATA SYSTEM	TECHNIQUE
Waters Alliance e2695	Empower 3	HPLC 254nm vs standards
COLUMN	**DETECTION WAVELENGTH**	**DATA FILE**
—	254 nm	PL-2610-096-HPLC.raw

3 GRADIENT PROGRAM

TIME (MIN)	% A	% B

4 PEAK TABLE

PEAK	RT (MIN)	AREA	AREA %

Not applicable : components are quantified against reference standards (amounts in the table on page 1) · Purity = main peak area ÷ total integrated area × 100, to two decimals ; main peak shaded .

5 IDENTITY BY MASS SPECTROMETRY

NOT APPLICABLE

Identity by co-elution with reference standards ; no mass-spectrometry test

6 ADDITIONAL TESTS

TEST	PERFORMED BY	DATE	REPORT / FILE
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: 2026-10-21

S. Calloway
Reviewer · checked against raw data
Date: 2026-10-21

M. Phelps
Lab Director · approved for release
Date: 2026-10-21

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-26-00212 and key 2R5MB7JW 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.