Axiom
ANALYTICS

CERTIFICATE OF ANALYSIS · 4X ESSENTIAL PANEL

Axiom Analytics Labs LLC
Sacramento, California, USA

AX-2026-2540-9ZRG

NU-LIPO B (Lipo-C 216) · Lot T-LIP-0058
Issued Nov 3, 2026 PT · v1
Verify: BABC-BABF-A6A4

SCAN TO VERIFY

PASS — ALL SPECIFICATIONS MET

4 of 4 layers complete

L1	L2	L3	L4
Identity	Purity	Net Peptide Content	Sterility

Sample & Vial Validation



Vial A: as received & analyzed

MORE VIEWS OF VIAL A



Vial A · right

Brand	**NU Biotech Labs**	Product	**NU-LIPO B (Lipo-C 216)**
Lot / Batch	**T-LIP-0058**	Label Claim	**L-Carnitine 20 mg + L-Arginine 20 mg + L-Methionine 25 mg + myo-Inositol 50 mg + Choline chloride 50 mg + Pyridoxine HCl (B6) 25 mg + Dexpanthenol (B5) 25 mg + Methylcobalamin 1 mg**
Matrix	**solution**	Sample Count	**1**
Vial Size	**10mL**	Cap Color	**Black**
Crimp Color	**Silver / Aluminum**	Contents Color	**Red**
Seal Intact	**Yes**	Condition	**sealed, intact**
Received	**Nov 3, 2026 PT**	Sampling	**client submitted**

Test Results

Test	Specification	Result	
Identity validated in house	every declared component within ±1 Da of its own theoretical mass	`8 of 8 components confirmed`	PASS
Purity validated in house	Expected ≥ 99.25 · Acceptance ≥ 99.25 · Units area % · Source Axiom SOP-HPLC-001; USP <621> guidance	`99.88%`	PASS
Net Peptide Content research screen	each declared component within its own locked content criterion, at the declared ratio	`228.3 mg`	PASS
Sterility · Rapid PCR research screen	Rapid PCR screen	`Target DNA not detected`	PASS

NU BIOTECH LABS
FOR RESEARCH USE ONLY

Results relate only to the item or portion tested. Unless sampling was performed or witnessed by Axiom Analytics, the laboratory does not attest that the submitted sample represents the wider lot or batch. A PASS designation means only that the reported result met the specification shown. It does not establish safety, efficacy, regulatory approval, legality, or suitability for human or animal use.

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Layer Results

1 Identity

HILIC-MS/MS, per-analyte MRM transition + LC-MS (ESI+) accurate mass

8 of 8 components confirmed
every declared component within ±1 Da of its own theoretical mass

PASS

Component	Its criterion	Observed	Status
L-Carnitine	161.201 Da · acceptance ±1 Da · average	161.18 Da · mass error -0.021 Da (-130.3 ppm)	PASS
L-Arginine	174.204 Da · acceptance ±1 Da · average	174.205 Da · mass error +0.001 Da (5.7 ppm)	PASS
L-Methionine	149.208 Da · acceptance ±1 Da · average	149.227 Da · mass error +0.019 Da (127.3 ppm)	PASS
myo-Inositol	180.156 Da · acceptance ±1 Da · average	180.142 Da · mass error -0.014 Da (-77.7 ppm)	PASS
Choline chloride	139.623 Da · acceptance ±1 Da · average	139.606 Da · mass error -0.017 Da (-121.8 ppm)	PASS
Pyridoxine HCl (B6)	205.638 Da · acceptance ±1 Da · average	205.643 Da · mass error +0.005 Da (24.3 ppm)	PASS
Dexpanthenol (B5)	205.254 Da · acceptance ±1 Da · average	205.253 Da · mass error -0.001 Da (-4.9 ppm)	PASS
Methylcobalamin	1344.405 Da · acceptance ±1 Da · average	1344.41 Da · mass error +0.005 Da (3.7 ppm)	PASS

Acceptance: **within ±1 Da** · Vial A · **8 of 8 components confirmed**

2 Purity

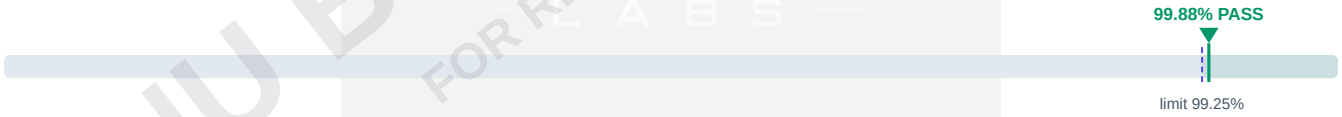
HILIC-CAD homogeneity (universal detection) + RP-HPLC 214 nm area% (USP <621>) + Light-protected cobalamin assay (amber, 361 nm)

99.88%
Expected ≥ 99.25 · Acceptance ≥ 99.25 · Units area % · Source Axiom SOP-HPLC-001; USP <621> guidance

PASS

Acceptance: **≥ 99.25%** · Vial A · **99.88% · PASS**

Criterion source: **Axiom SOP-HPLC-001; USP <621> guidance**



3 Net Peptide Content

Quantitative HPLC vs reference std

228.3 mg
each declared component within its own locked content criterion, at the declared ratio

PASS

Component	Its criterion	Observed	Status
L-Carnitine	18–22 mg (20 mg ±10%)	20.74 mg	PASS
L-Arginine	18–22 mg (20 mg ±10%)	21.2 mg	PASS
L-Methionine	22.5–27.5 mg (25 mg ±10%)	26.55 mg	PASS
myo-Inositol	45–55 mg (50 mg ±10%)	53.16 mg	PASS
Choline chloride	45–55 mg (50 mg ±10%)	53.11 mg	PASS
Pyridoxine HCl (B6)	22.5–27.5 mg (25 mg ±10%)	26.26 mg	PASS
Dexpanthenol (B5)	22.5–27.5 mg (25 mg ±10%)	26.22 mg	PASS
Methylcobalamin	0.9–1.1 mg (1 mg ±10%)	1.06 mg	PASS

Target: **216 mg (±10%)** · Criterion source: **Axiom SPEC-CONTENT-001**

Confirmed container volume: **Unknown** · Content concentration: **Unknown**

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4 Sterility · Rapid PCR

Rapid Microbial DNA Screen (qPCR target panel)

Target DNA not detected — Rapid PCR screen — PASS

Run controls valid.

Reporting Scope & Limitations

`[Sterility · Rapid PCR]` Rapid PCR screen for microbial DNA. It detects DNA from live and dead organisms and is not a USP <71> sterility test or a USP <61> count. Full USP <71> sterility testing is available as an add-on.

Digital Signatures

Analyst	**Alana Reeves**	Analyst Signature	**ed25519:a1064631605b0ce32a46a8cc...**
Technical Reviewer	**Michael Niles**	Reviewer Signature	**ed25519:2065c8f16a1a986042393ff4...**
Laboratory Director	**Daniel Brennan**	Director Signature	**ed25519:e5c48c5174e0493d1ebd5e49...**

Testing is performed within Axiom's laboratory network under Axiom's methods. Every result is reviewed and released by Axiom, which issues and is responsible for this certificate. Axiom Analytics does not hold ISO/IEC 17025 accreditation. Samples are identified to the testing laboratory by an internal lot ID only. The method status of each result is shown beside it.

Each signature is an Ed25519 signature over the SHA-384 hash of this report. Scan the QR code or verify it yourself at https://axiomanalyticslab.com/verify/AX-2026-2540-9ZRG.

✓ **CRYPTOGRAPHICALLY SEALED (ed25519 + SHA-384)**

SHA-384: 421637b2e8721d1ce8a05ddc52fd042a166af7515a78c32ee3722685d2e04704...

Seal: ed25519:2e442daa5bc523be729f4705036ed8bac78855fa...

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