Axiom
ANALYTICS

CERTIFICATE OF ANALYSIS · 4X ESSENTIAL PANEL

Axiom Analytics Labs LLC
Sacramento, California, USA

AX-2026-1396-K4T8

Lipo C (Lipo-C 216) · Lot AX-2026-11
Issued Nov 10, 2026 PT
Verify: 4434-CCBB-DA18

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



Photograph associated with this sample

Brand	**Old Glory Aminos**	Product	**Lipo C (Lipo-C 216)**
Lot / Batch	**AX-2026-11**	Label Claim	**L-Carnitine 200 mg + L-Arginine 200 mg + Methionine 250 mg + Inositol 500 mg + Choline 500 mg + Pyridoxine (B6) 250 mg + Dexpanthenol (B5) 250 mg + Methylcobalamin (B12) 10 mg**
Matrix	**solution**	Sample Count	**1**
Vial Size	**10mL**	Cap Color	**Clear**
Crimp Color	**Bronze**	Contents Color	**Red**
Seal Intact	**Yes**	Condition	**sealed, intact**
Received	**Nov 5, 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; target 100.00 mg/container (10.00 mg/mL)	`104.90 mg per container · 10.49 mg/mL (derived from 10 mL/container)`	NOT ASSESSED
Sterility · Rapid PCR research screen	Rapid PCR screen	`Target DNA not detected`	PASS

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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	161.212 Da · mass error +0.011 Da (68.2 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	149.218 Da · mass error +0.01 Da (67 ppm)	PASS
myo-Inositol	180.156 Da · acceptance ±1 Da · average	180.153 Da · mass error -0.003 Da (-16.7 ppm)	PASS
Choline chloride	139.623 Da · acceptance ±1 Da · average	139.63 Da · mass error +0.007 Da (50.1 ppm)	PASS
Pyridoxine HCl (B6)	205.638 Da · acceptance ±1 Da · average	205.629 Da · mass error -0.009 Da (-43.8 ppm)	PASS
Dexpanthenol (B5)	205.254 Da · acceptance ±1 Da · average	205.247 Da · mass error -0.007 Da (-34.1 ppm)	PASS
Methylcobalamin	1344.405 Da · acceptance ±1 Da · average	1344.409 Da · mass error +0.004 Da (3 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**



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3 Net Peptide Content

Quantitative HPLC vs reference std

104.90 mg per container · 10.49 mg/mL (derived from 10 mL/container)

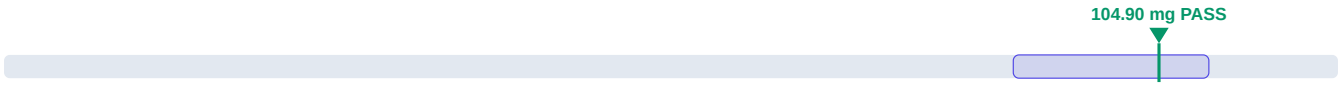
each declared component within its own locked content criterion, at the declared ratio; target 100.00 mg/container (10.00 mg/mL)

NOT ASSESSED

Component	Its criterion	Observed	Status
L-Carnitine	8.333333–10.185185 mg (9.259259 mg ±10%)	9.87 mg	Not assessed
L-Arginine	8.333333–10.185185 mg (9.259259 mg ±10%)	9.88 mg	Not assessed
L-Methionine	10.416667–12.731481 mg (11.574074 mg ±10%)	12.10 mg	Not assessed
myo-Inositol	20.833333–25.462963 mg (23.148148 mg ±10%)	24.33 mg	Not assessed
Choline chloride	20.833333–25.462963 mg (23.148148 mg ±10%)	24.25 mg	Not assessed
Pyridoxine HCl (B6)	10.416667–12.731481 mg (11.574074 mg ±10%)	12.08 mg	Not assessed
Dexpanthenol (B5)	10.416667–12.731481 mg (11.574074 mg ±10%)	11.90 mg	Not assessed
Methylcobalamin	0.416667–0.509259 mg (0.462963 mg ±10%)	0.49 mg	Not assessed

Ratio, in the table's component order: observed **20.14 : 20.16 : 24.69 : 49.65 : 49.49 : 24.65 : 24.29 : 1.00** against declared **20.00 : 20.00 : 25.00 : 50.00 : 50.00 : 25.00 : 25.00 : 1.00** · source Axiom SPEC-CONTENT-001

Target	**100.00 mg (±10%)**	Vial A	**104.90 mg · PASS**
Confirmed container volume	**10 mL**	Content concentration (derived)	**10.49 mg/mL**
Target content	**100.00 mg/container · 10.00 mg/mL**	Concentration basis	**Recorded total mass divided by confirmed container volume**



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.

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Digital Signatures

Analyst	**Alana Reeves**	Analyst Signature	**ed25519:81a1bd549bc5c44310f62067...**
Technical Reviewer	**Michael Niles**	Reviewer Signature	**ed25519:aadce36d4cb4ebff04568d96...**
Laboratory Director	**Daniel Brennan**	Director Signature	**ed25519:54c8069ae95a69f4b0d1e4e5...**

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-2026-1396-K4T8.

✓ CRYPTOGRAPHICALLY SEALED (ed25519 + SHA-384)

SHA-384: 703e34c8ef82e0071d148202fb690dad74de728b2be0b48ecbb144cc6978c543...

Seal: ed25519:29aca435ca162050e2fc21186317492ce32a0521...

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