Axiom
ANALYTICS

CERTIFICATE OF ANALYSIS · 4X ESSENTIAL PANEL + 1 ADD-ON LAYER (L8)

Axiom Analytics Laboratories
2108 N St Ste N, Sacramento, CA 95816 US

AX-2026-1035-7VPV

Lipo-C 120 · Lot T-LIP-0057
Issued Oct 17, 2026 PT · v1
Verify: 64FA-D334-653B

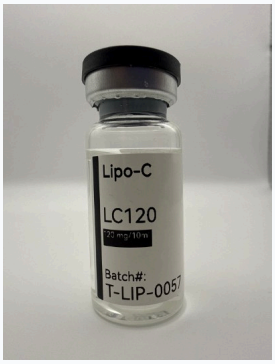
SCAN TO VERIFY

PASS — ALL SPECIFICATIONS MET

5 of 5 layers complete

L1	L2	L3	L4	L8
Identity	Purity	Net Peptide Content	Sterility	Fentanyl Screen

Sample & Vial Validation



Vial A: as received & analyzed

MORE VIEWS OF VIAL A



Vial A · right

Brand	**Liberty Research Solutions**	Product	**Lipo-C 120**
Lot / Batch	**T-LIP-0057**	Label Claim	**1200 mg**
Matrix	**solution**	Sample Count	**1**
Cap Color	**Black**	Crimp Color	**Silver / Aluminum**
Contents Color	**White**	Seal Intact	**Yes**
Condition	**sealed, intact**	Received	**Sep 24, 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	`4 of 4 components confirmed`	PASS
Purity validated in house	each declared component at or above its own locked purity criterion	`99.57%`	PASS
Net Peptide Content research screen	every vial within ±10% of 1200 mg	`Vial A: 1269.4 mg`	PASS
Sterility · Rapid PCR research screen	Rapid PCR screen	`Target DNA not detected`	PASS
Fentanyl Screen research screen	no fentanyl or analog at or above 1 ng/mg	`none detected`	PASS

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SCAN TO VERIFY

Layer Results

1 Identity

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

4 of 4 components confirmed
every declared component within ±1 Da of its own theoretical mass

PASS

Component	Its criterion	Observed	Status
L-Methionine	149.208 Da · acceptance ±1 Da · average	149.235 Da	PASS Recorded component call: PASS Calculated comparison: within criterion Signed layer call: PASS
Choline chloride	139.623 Da · acceptance ±1 Da · average	139.636 Da	PASS Recorded component call: PASS Calculated comparison: within criterion Signed layer call: PASS
L-Carnitine	161.201 Da · acceptance ±1 Da · average	161.197 Da	PASS Recorded component call: PASS Calculated comparison: within criterion Signed layer call: PASS
Dexpanthenol (B5)	205.254 Da · acceptance ±1 Da · average	205.402 Da	PASS Recorded component call: PASS Calculated comparison: within criterion Signed layer call: PASS

Theoretical mass **205.254 Da** Acceptance **within ±1 Da**

Vial A **4 of 4 components confirmed**

Component	Theoretical	Observed	Mass error	Identity
L-Methionine	149.208 Da	149.235 Da	+0.027 Da (181 ppm)	CONFIRMED
Choline chloride	139.623 Da	139.636 Da	+0.013 Da (93.1 ppm)	CONFIRMED
L-Carnitine	161.201 Da	161.197 Da	-0.004 Da (-24.8 ppm)	CONFIRMED
Dexpanthenol (B5)	205.254 Da	205.402 Da	+0.148 Da (721.1 ppm)	CONFIRMED

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SCAN TO VERIFY

2 Purity

HILIC-CAD homogeneity (universal detection)

99.57%
each declared component at or above its own locked purity criterion

PASS

Component	Its criterion	Observed	Status
L-Methionine	Expected Purity ≥ 99.25 area % · Acceptance NLT 99.25 area % · Units area % · Source Axiom Analytics SPEC-PURITY-001, Revision 1, effective 2026-08-31	99.74%	PASS Recorded component call: not recorded Calculated comparison: within criterion Signed layer call: PASS
Choline chloride	Expected Purity ≥ 99.25 area % · Acceptance NLT 99.25 area % · Units area % · Source Axiom Analytics SPEC-PURITY-001, Revision 1, effective 2026-08-31	99.32%	PASS Recorded component call: not recorded Calculated comparison: within criterion Signed layer call: PASS
L-Carnitine	Expected Purity ≥ 99.25 area % · Acceptance NLT 99.25 area % · Units area % · Source Axiom Analytics SPEC-PURITY-001, Revision 1, effective 2026-08-31	99.62%	PASS Recorded component call: not recorded Calculated comparison: within criterion Signed layer call: PASS
Dexpanthenol (B5)	Expected Purity ≥ 99.25 area % · Acceptance NLT 99.25 area % · Units area % · Source Axiom Analytics SPEC-PURITY-001, Revision 1, effective 2026-08-31	99.59%	PASS Recorded component call: not recorded Calculated comparison: within criterion Signed layer call: PASS
Acceptance	**Each component NLT 99.25 area %**		

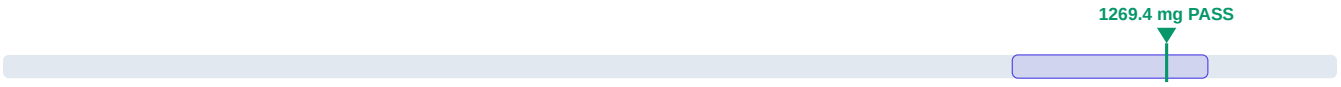
3 Net Peptide Content

Quantitative HPLC vs reference std

Vial A: 1269.4 mg
every vial within ±10% of 1200 mg

PASS

Target	**1200 mg (±10%)**	Vial A	**1269.4 mg · PASS**
Per-component content	**Measured as one total per container; per-component content not established**	L-Methionine (declared)	**150 mg · declared allocation, not established**
Choline chloride (declared)	**500 mg · declared allocation, not established**	L-Carnitine (declared)	**500 mg · declared allocation, not established**
Dexpanthenol (B5) (declared)	**50 mg · declared allocation, not established**	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

Result	**Target DNA not detected**	Acceptance	**Rapid PCR screen**

8 Fentanyl Screen

LC-MS/MS targeted adulterant screen

none detected — no fentanyl or analog at or above 1 ng/mg — PASS

Result	**Not detected**	Detection limit	**1 ng/mg**
Analytes screened	**Fentanyl, Acetylfentanyl, Acrylfentanyl, Butyrylfentanyl, Carfentanil, Cyclopropylfentanyl, Furanylfentanyl, Methoxyacetylfentanyl, ortho-Fluorofentanyl, Valerylfentanyl, 4-ANPP (despropionyl fentanyl)**	Source container	**A**

Reporting Scope & Limitations

`[Sterility · Rapid PCR]` DNA-target research screen only. It detects microbial DNA from viable and non-viable organisms alike, and is neither viable-CFU enumeration under USP <61> nor a batch sterility determination under USP <71>.

`[Fentanyl Screen]` Targeted LC-MS/MS adulterant screen, reported as detected or not detected against its stated detection limit. A harm-reduction research screen, not an exhaustive adulterant panel.

Digital Signatures

Analyst	**Alana Reeves**	Analyst Signature	**ed25519:fbe6fc1cecb7637821804296...**
Technical Reviewer	**Michael Niles**	Reviewer Signature	**ed25519:7443ab3d2942c1a7ac2ef4a1...**
Laboratory Director	**Daniel Brennan**	Director Signature	**ed25519:00a615d0f4cac031abd32f3c...**

Where physical instrument analysis is performed, it takes place within Axiom Analytics' laboratory network, allocated at Axiom's discretion based on method, capacity, and order volume. Axiom Analytics performs sample accession, chain of custody, analytical oversight, and data review, and issues and is responsible for this certificate. Where analysis is subcontracted, the method is performed within the partner laboratory's published ISO/IEC 17025 scope of accreditation for that method, not merely at a laboratory holding ISO/IEC 17025 accreditation. Axiom Analytics does not itself currently hold ISO/IEC 17025 accreditation. The method-validation status of each reported result is identified beside that result. Partner laboratory identities are not disclosed: where samples are analyzed under double-blind conditions, they are identified only by an internal lot ID.

Each signature is an ed25519 signature over the SHA-384 hash of this report. Scan the QR on the letterhead or verify independently at https://axiomanalyticslab.com/verify/AX-2026-1035-7VPV.

Presentation corrected 2026-10-18; results and signatures unchanged.

✓ CRYPTOGRAPHICALLY SEALED (ed25519 + SHA-384)

SHA-384: 027309ab365ea078ff7311425e3776d594973b36fbc6b08365a07f1034c3801b...

Seal: ed25519:0aeaf6cfcbb73f6af2f8a22f2d00ac905348b5b5...

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