Axiom
ANALYTICS

CERTIFICATE OF ANALYSIS · 4X ESSENTIAL PANEL

Axiom Analytics Labs LLC
Sacramento, California, USA

AX-2026-1698-A724

L-Carnitine · Lot GL-LC1200-02-202611-001
Issued Nov 5, 2026 PT · v1
Verify: 5B68-A334-24C4

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 · left

Brand	**Guardian Labs**	Product	**L-Carnitine**
Lot / Batch	**GL-LC1200-02-202611-001**	Label Claim	**1200 mg/mL, 10 mL**
Matrix	**solution**	Sample Count	**1**
Vial Size	**10mL**	Cap Color	**Clear**
Crimp Color	**Silver / Aluminum**	Contents Color	**Clear/Translucent**
Seal Intact	**Yes**	Condition	**sealed, intact**
Received	**Nov 4, 2026 PT**	Sampling	**client submitted**

Test Results

Test	Specification	Result	
Identity validated in house	every vial within ±1 Da of 161.201 Da	161.221 Da	PASS
Purity validated in house	Expected ≥ 99.25 · Acceptance ≥ 99.25 · Units area % · Source Axiom Analytics SPEC-PURITY-001, Revision 1, effective 2026-08-31 | Axiom derived expected reference (not an instrument observation). Retention modelled from analyte mass for the article class's method; purity and impurity distribution are the class's expected profile. Superseded on receipt of a measured reference standard chromatogram.	99.96%	PASS
Net Peptide Content research screen	every vial within ±10% of 12000 mg; target 12000 mg/container (1200 mg/mL)	12442.92 mg per container · 1244.292 mg/mL (derived from 10 mL/container)	PASS
Sterility · Rapid PCR research screen	Rapid PCR screen	Target DNA not detected	PASS

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

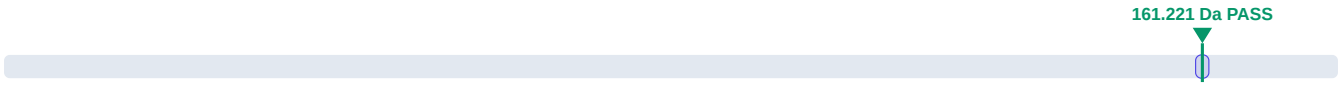
1 Identity

HILIC-MS/MS, per-analyte MRM transition

161.221 Da
every vial within ±1 Da of 161.201 Da

PASS

Theoretical mass	**161.201 Da**	Acceptance	**within ±1 Da**
Vial A	**161.221 Da · PASS**		



2 Purity

HILIC-CAD homogeneity (universal detection)

99.96%
Expected ≥ 99.25 · Acceptance ≥ 99.25 · Units area % · Source Axiom Analytics SPEC-PURITY-001, Revision 1, effective 2026-08-31 | Axiom derived expected reference (not an instrument observation). Retention modelled from analyte mass for the article class's method; purity and impurity distribution are the class's expected profile. Superseded on receipt of a measured reference standard chromatogram.

PASS

Acceptance	**≥ 99.25%**	Vial A	**99.96% · PASS**
Criterion source	**Axiom Analytics SPEC-PURITY-001, Revision 1, effective 2026-08-31 | Axiom derived expected reference (not an instrument observation). Retention modelled from analyte mass for the article class's method; purity and impurity distribution are the class's expected profile. Superseded on receipt of a measured reference standard chromatogram.**		



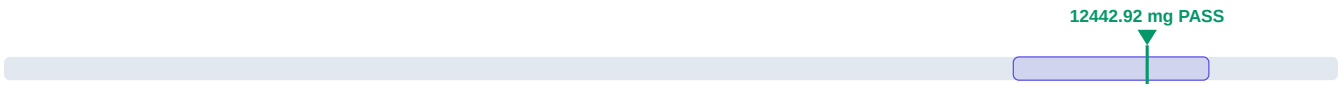
3 Net Peptide Content

Quantitative HPLC vs reference std

12442.92 mg per container · 1244.292 mg/mL (derived from 10 mL/container)
every vial within ±10% of 12000 mg; target 12000 mg/container (1200 mg/mL)

PASS

Target	**12000 mg (±10%)**	Vial A	**12442.92 mg · PASS**
Confirmed container volume	**10 mL**	Content concentration (derived)	**1244.292 mg/mL**
Target content	**12000 mg/container · 1200 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.

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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	**ed25519:304c8fbd1a1a33c5d0ec0ed8...**
Technical Reviewer	**Michael Niles**	Reviewer Signature	**ed25519:fb47b9bd6ec15bec18a85ac5...**
Laboratory Director	**Daniel Brennan**	Director Signature	**ed25519:29093a7cb5787e3a6bea3fa8...**

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-2026-1698-A724.

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

SHA-384: a1693257db10afefd87928a90f20bdc5d22158ec3f2286e355d302c3d5a667c2...

Seal: ed25519:0e9d1312b93ad64208866ac5ab1d8926472e2375...

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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