



SCAN TO VERIFY

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

AX-2026-3373-B8DU

Semax · Lot T-SEM-0091
Issued Oct 1, 2026 · v1
Verify: EF6C-19B0-D7C3

PASS — ALL SPECIFICATIONS MET

5 of 5 layers complete

■ L1
Identity

■ L2
Purity

■ L3
Net Peptide Content

■ L4
Sterility

■ L8
Fentanyl Screen

Sample & Vial Validation



Vial A: as received & analyzed

MORE VIEWS OF VIAL A



Vial A - right

Client	NU Biotech Labs	Product	Semax
Lot / Batch	T-SEM-0091	Label Claim	10 mg
Matrix	lyophilized powder	Sample Count	1
Cap Color	Black	Crimp Color	Silver / Aluminum
Contents Color	White	Seal Intact	Yes
Condition	sealed, intact	Received	Sep 24, 2026
Sampling	client submitted		

Test Results

Test	Specification	Result	
Identity research screen	every vial within ± 1 Da of 813.928 Da	813.996 Da	PASS
Purity research screen	Expected Purity ≥ 99.25 area % · Acceptance NLT 99.25 area % · Units area % · Source Axiom Analytics SPEC-PURITY-001, Revision 1, effective 2026-08-31	99.7%	PASS
Net Peptide Content research screen	every vial within $\pm 10\%$ of 10 mg	Vial A: 10.49 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

Layer Results



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1 Identity

LC-MS (ESI+)

1 physical-vial mass observation

each +/- 1 Da (theor. 813.928)

PASS

Mass consistent with Semax

Theoretical mass **813.928 Da** Acceptance **+/- 1 Da**

Vial	Observed mass	Mass error	Status
Vial A	813.996 Da	+0.068 Da	PASS

813.996 Da **PASS**

2 Purity

RP-HPLC 214nm (USP 621)

Expected Purity ≥ 99.25 area % · Acceptance NLT 99.25 area % · Units area % · Source Axiom Analytics SPEC-PURITY-001, Revision 1, effective 2026-08-31

1 physical-vial purity observation

PASS

Expected Purity ≥ 99.25 area % · Acceptance NLT 99.25 area % · Units area % · Source Axiom Analytics SPEC-PURITY-001, Revision 1, effective 2026-08-31

Vial	Purity	Status
Vial A	99.7%	PASS

99.7% **PASS**

limit 99.25%

3 Net Peptide Content

Quantitative HPLC vs reference std

10.49 mg

each within +/- 10% of 10 mg

PASS

10.49 mg **PASS**

Vial	Measured	Status
Vial A	10.49 mg	PASS

4 Sterility

Rapid Microbial DNA Screen (qPCR target panel)

Sterility · Rapid PCR: Target DNA not detected

No microbial target DNA detected

PASS

Sterility · Rapid PCR

PASS

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



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Fentanyl Screen

LC-MS/MS targeted adulterant screen

Not detected

detection limit 1 ng/mg

PASS

Analytes
screened

**Fentanyl, Acetylfentanyl, Acrylfentanyl, Butyrylfentanyl,
Carfentanil, Cyclopropylfentanyl, Furanylfentanyl,
Methoxyacetylfentanyl, ortho-Fluorofentanyl,
Valerylfentanyl, 4-ANPP (despropionyl fentanyl)**

Detection limit

1 ng/mg

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:d9850ab782bd8b4bfa955de5...

Technical Reviewer

Michael Niles

Reviewer Signature

ed25519:b97b224566dffe49d0825990...

Laboratory Director

Daniel Brennan

Director Signature

ed25519:90aa6a46b91495484d2848ce...

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Seal: ed25519:6810745cff4fa520e3a55b84ede328bde0a8314f...

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