



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	NAD+
Lot / Batch	T-NAD-0068	Label Claim	1000 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 663.43 Da	663.236 Da	PASS
Purity validated in house	Expected ≥ 99.25 · Acceptance ≥ 99.25 · Units controlled result · Source Axiom Analytics SPEC-PURITY-001, Revision 1, effective 2026-08-31	99.72%	PASS
Net Peptide Content research screen	every vial within $\pm 10\%$ of 1000 mg	Vial A: 1069.22 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



1 Identity

LC-MS (ESI+)

1 physical-vial mass observation

each +/- 1 Da (theor. 663.43)

PASS

Mass consistent with NAD+

Theoretical mass **663.43 Da** Acceptance **+/- 1 Da**

Vial	Observed mass	Mass error	Status
Vial A	663.236 Da	-0.194 Da	PASS

663.236 Da **PASS**

2 Purity

HILIC-CAD homogeneity (universal detection)

Expected ≥ 99.25 · Acceptance ≥ 99.25 · Units controlled result · Source Axiom Analytics SPEC-PURITY-001, Revision 1, effective 2026-08-31

1 physical-vial purity observation

PASS

Expected ≥ 99.25 · Acceptance ≥ 99.25 · Units controlled result · Source Axiom Analytics SPEC-PURITY-001, Revision 1, effective 2026-08-31

Vial	Purity	Status
Vial A	99.72%	PASS

99.72% **PASS**

limit 99.25%

3 Net Peptide Content

Quantitative HPLC vs reference std

1069.22 mg
each within +/- 10% of 1000 mg

PASS

1069.22 mg **PASS**

Vial	Measured	Status
Vial A	1069.22 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

ed25519:4cc8f568dd163f13e6ba17a6...

Technical Reviewer

Michael Niles

Reviewer Signature

ed25519:706c290adfd305f37d2acd9d...

Laboratory Director

Daniel Brennan

Director Signature

ed25519:43c074380622b61760b5c5d7...

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Seal: ed25519:88cc24b783a43504ea4b26de218494c23a0fbf32...

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