



AEGIS PEPTIDE ANALYTICS

Certificate of Analysis
Independent Third-Party Testing Laboratory



CERTIFICATE NO.
APA-2026-000055

✓ **OVERALL PASS**

SAMPLE INFORMATION

COMPOUND:	NAD+ 1000mg	LOT NUMBER:	BBL-260608-13
CAS NUMBER:	53-84-9	TEST DATE:	June 4, 2026
ISSUE DATE:	June 7, 2026	EXPIRY DATE:	June 4, 2027
CLIENT:	Blackwell BioSciences	TESTING METHODS:	HPLC-UV · LC-MS/MS · ICP-MS · Karl Fischer

TEST RESULTS

01 Purity Analysis — HPLC-UV

USP <621> · Reverse-Phase C18 · UV 220 nm

PURITY RESULT

99.6%

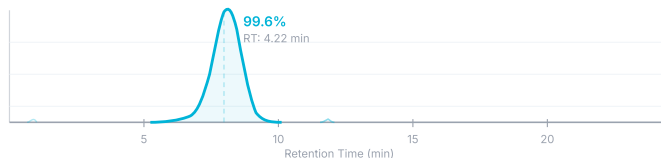
SPECIFICATION

≥99.0%

RESULT

✓ **PASS**

CHROMATOGRAM (ILLUSTRATIVE — REVERSE PHASE C18, 260 NM)



DETECTION λ

260 nm

RETENTION TIME

4.22 min

PEAK AREA

—

COLUMN

C18 150×4.6mm 5 μ m

02 Identity Confirmation — LC-MS/MS

ESI positive mode · Triple Quadrupole · USP <621>

MOLECULAR FORMULA

C₂₁H₂₇N₇O₁₄P₂

✓ **CONFIRMED**

EXPECTED MW

663.43 Da

OBSERVED [M+H]⁺

[M+H]⁺ 664.12

MASS ERROR

0.8


03 Heavy Metals Screening — ICP-MS

ICP-MS, USP <232>/<233>

ELEMENT	SYMBOL	RESULT (PPB)	LIMIT (PPB)	STATUS
Lead	Pb	<0.5	500	✓ PASS
Arsenic	As	<0.5	1,500	✓ PASS
Cadmium	Cd	<0.2	500	✓ PASS
Mercury	Hg	<0.1	300	✓ PASS

04 Water Content — Karl Fischer Titration

Karl Fischer Titration, USP <921>

WATER CONTENT 4.5%	SPECIFICATION ≤ 6.0%	RESULT ✓ PASS
Content vs. Limit (4.5% / 6.0%) 		

METHODOLOGY & QUALITY REFERENCES

All analytical procedures are performed in compliance with the current United States Pharmacopeia (USP), International Council for Harmonisation (ICH) guidelines, and applicable FDA Analytical Procedures guidance documents. Reference standards are NIST-traceable or USP-grade. Instruments are calibrated per manufacturer protocols and internal SOPs with documented calibration records. All results are issued as final and cannot be retroactively altered after certificate issuance.

[USP <61>/<62>](#)

[USP <71>](#)

[USP <85>](#)

[USP <232>/<233>](#)

[USP <621>](#)

[USP <731>](#)

[USP <788>](#)

[ICH Q3C](#)

[ICH Q2\(R2\)](#)

CHAIN OF CUSTODY

Sample Received
—

Analysis Start
June 4, 2026

Analysis Complete
June 4, 2026

Certificate Issued
June 7, 2026

Authorized Laboratory Signatory
Lab Director / Quality Manager

Date of Release
June 7, 2026

This certificate is issued by Aegis Peptide Analytics LLC. Results are specific to the sample tested and may not be representative of other lots or batches. This COA is for research purposes only and is not intended for use in diagnostic or therapeutic decisions.

Verify at:
aegispeptideanalytics.com/verify
APA-2026-000055

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