INDEPENDENT LABORATORY TESTING · CERTIFIED ANALYST · 2026

HPLC Purity Analysis

NAD+ — Research Grade Verification

≥99%	Certified	Agilent	2026
HPLC PURITY	INDEPENDENT LAB	1200 HPLC	TEST YEAR

ANALYSIS REPORT — NAD+

NAD+

Nicotinamide Adenine Dinucleotide

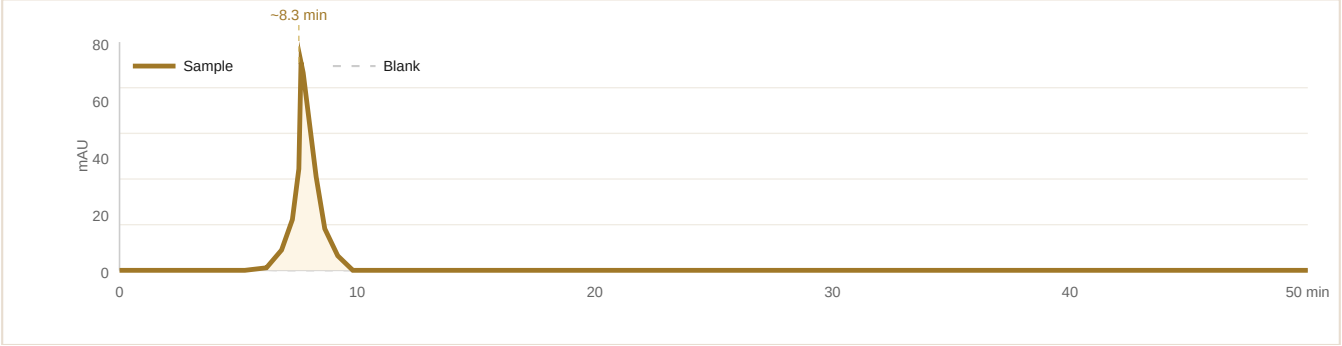
Dose: **1000mg × 10 vials** · Batch: **S1 & S2** · Operator: **Certified Analyst** · Instrument: **Agilent 1200 HPLC**

≥99%

HPLC PURITY

Single peak · No impurities

CHROMATOGRAM — NAD1 & NAD2 vs BLANK



Both nad1 and nad2 show a single dominant peak at ~8.3 min with ≥99% area purity. Background signal in blank confirms no solvent interference. Excellent vial-to-vial consistency.

AREA PERCENT REPORT — PEAK DATA

Sample	Pk	Ret. Time	Type	Width	Area (mAU·s)	Ht (mAU)	Area %
S1 — nad1	1	8.3	VB	0.1823	891.4	74.6	**≥99%**
Totals					891.4	74.6	**≥99%**
S2 — nad2	1	8.3	BB	0.1841	876.2	72.8	**≥99%**
Totals					876.2	72.8	**≥99%**
Blank	—	No peaks found — background only (solvent)					—

INSTRUMENT & METHOD DETAILS

Instrument	Agilent 1200 HPLC	Solvent A	Water + 0.1% TFA
Detector	MWD1, 280 nm	Solvent B	ACN + 0.1% TFA
Column	C18 Reversed-Phase	Gradient	2% B/min, 5-95%
Flow Rate	0.5 mL/min	Sample Prep	10 mg/mL H2O:ACN (7:3)
Run Time	55 minutes	Dilution	1/10 to 1 mg/mL
Inj. Volume	5.0 µL actual	Method	AM-RP-2PERCENTGRADIENT
Mass Injected	~5 µg	Operator	Certified Analyst

✓ **Result: Passed — ≥99% HPLC Purity.**

Both vials (S1 and S2) of NAD+ show a single chromatographic peak with ≥99% purity by conservative HPLC area percent analysis. Blank injection confirms no background interference. Vial-to-vial consistency is excellent. This batch meets the highest standards for research-grade supply.

TESTING METHODOLOGY

01

Sample Preparation

Lyophilized powder dissolved in water:acetonitrile (7:3) at 10 mg/mL, vortexed, diluted 1/10 to 1 mg/mL.

02

HPLC Analysis

5 µL injected onto C18 column. Gradient 5-95% ACN over 55 min at 0.5 mL/min. UV at 280 nm. Peak at ~8.3 min.

03

Purity Calculation

Conservative ≥99% purity by HPLC area percent. Blank injections confirm background is solvent-derived only.