

CERTIFICATE OF ANALYSIS

HPLC, Mass Spectrometry & Elemental Impurities Report

Sample Name	NAD+
Client Name	Genix Labs
Lot Number	158390
Report Number	ID-NAD-1000-158390
CAS Number	53-84-9
Chemical Name	β -Nicotinamide Adenine Dinucleotide (free acid)

Molecular Formula	$C_{21}H_{27}N_7O_{14}P_2$
Molecular Weight	663.43 g/mol
Amount / Fill	1000 mg
Analysis Date	Jun 5, 2026
Report Date	Jun 6, 2026
Analytical Method	HPLC-UV-MS (260 nm)

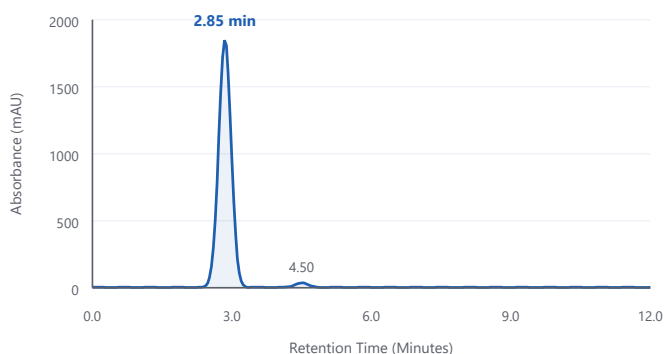
ANALYTICAL RESULTS

Test Parameter	Specifications	Observed Result	Status
Appearance	White to off-white powder	Conforms	PASS
Identity (LC-MS)	Observed mass conforms to structure	663.4 amu	PASS
Purity (HPLC-UV)	Minimum 98.00% by chromatogram area	98.70%	PASS
Compound Content	Report actual content percentage	98.20%	PASS

ELEMENTAL IMPURITIES — USP <232> / <233> (ICP-MS)

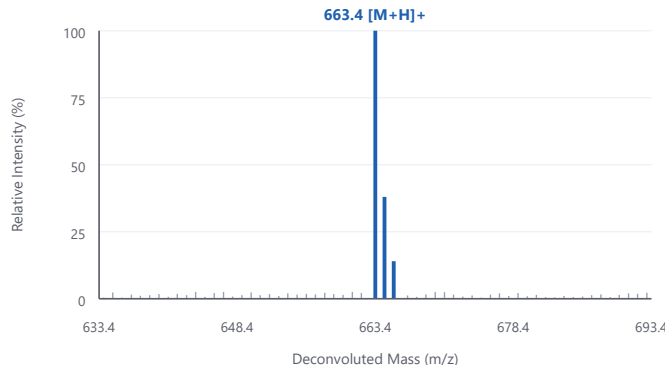
Lead (Pb) < 0.20 ppm PASS ≤ 10 ppm	Arsenic (As) < 0.05 ppm PASS ≤ 1.5 ppm	Cadmium (Cd) < 0.05 ppm PASS ≤ 0.50 ppm	Mercury (Hg) < 0.10 ppm PASS ≤ 1.5 ppm
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HPLC CHROMATOGRAM (UV @ 260 NM)



Peak #	Retention Time (min)	Peak Area (mAU*s)	Area %
1	2.85	15199.80	98.70%
2	4.50	200.20	1.30%
Total		15400.00	100.00%

MASS SPECTRUM (ESI-MS DECONVOLUTED)



Deconvolution Results:

Expected Mass: 663.43 amu

Observed Mass: 663.37 amu (± 0.5 amu)

Conclusion: Mass matches expected molecular structure.

Report Notes & Disclaimer:

This analysis was performed by High-Performance Liquid Chromatography (HPLC) with Ultraviolet (UV) detection coupled with Electrospray Ionization Mass Spectrometry (ESI-MS). Purity value is calculated by integrating chromatogram peak areas at 260 nm. Compound content was determined by quantitative HPLC against a certified reference standard. Elemental impurities (Pb, As, Cd, Hg) were determined by ICP-MS in accordance with USP <232>/<233> and were below the specified limits. Salts, counter-ions, sugars (excipients), or residual water molecules resulting from lyophilization are not counted as chemical impurities under normal UV chromatographic detection protocols. The results detailed in this Certificate of Analysis relate solely to the specific sample lot number tested as received. For laboratory research use only. Not for human use.

Ken Pendarvis, ChE

Lead Analytical Chemist, MZ Biolabs
Quality Assurance Sign-Off



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