



Cata Research

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CERTIFICATE OF ANALYSIS

Document Number:

COA-CR-NA-5026-01



PRODUCT NAME

NAD+



BATCH/LOT NUMBER

CR-NA-5026



PACK SIZE

500mg

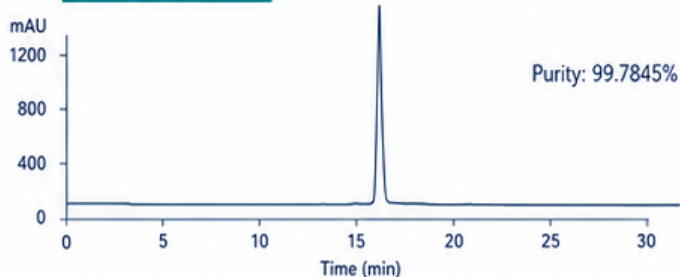


DATE OF ANALYSIS

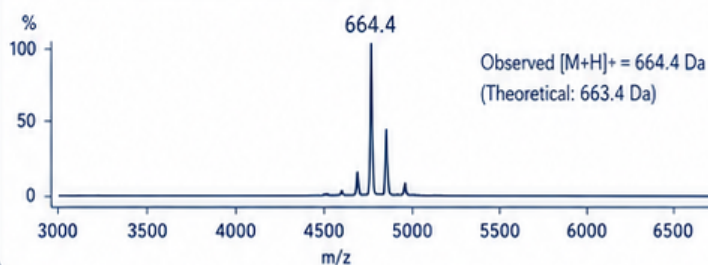
June 1, 2026

#	TEST	SPECIFICATION	RESULT	METHOD	STATUS
1.	Appearance	White to off-white crystalline powder	Conforms	Visual Inspection	✓ PASS
2.	Identity (ESI-MS)	Mass matches theoretical (±1.0 Da)	Observed [M+H] ⁺ = 664.4 Da (Theoretical: 663.4 Da)	ESI-TOF Mass Spectrometry	✓ PASS
3.	Purity (RP-HPLC 214nm)	≥99.5%	99.7845%	RP-HPLC (214nm)	✓ PASS
4.	Purity (RP-HPLC 280nm)	≥99.0%	N/A (No aromatic residues)	RP-HPLC (280nm)	— N/A
5.	Total Impurities	≤0.5%	0.2155%	RP-HPLC (Area %)	✓ PASS
6.	Single Largest Impurity	≤0.15%	0.05%	RP-HPLC (Area %)	✓ PASS
7.	Aggregates (SEC-HPLC)	≤0.5%	<0.01%	Size Exclusion HPLC	✓ PASS
8.	Peptide Content (Anhydrous)	≥98.0%	99.1%	Amino Acid Analysis (AAA)	✓ PASS
9.	Water Content (Karl Fischer)	≤5.0%	0.09%	Coulometric Karl Fischer Titration	✓ PASS
10.	Acetate Content	≤10.0%	<0.5% (Free acid)	Ion Chromatography	✓ PASS
11.	Residual Acetonitrile (ACN)	≤410 ppm	<8 ppm	GC-HS	✓ PASS
12.	Residual DMF	≤880 ppm	<5 ppm	GC-HS	✓ PASS
13.	Residual DCM	≤600 ppm	<2 ppm	GC-HS	✓ PASS
14.	Heavy Metals (Total by ICP-MS)	≤20 ppm	<0.1 ppm	ICP-MS	✓ PASS
15.	Bacterial Endotoxins	<1.0 EU/mg	<0.01 EU/mg	LAL	✓ PASS
16.	Bioburden (TAMC)	<10 CFU/g	<1 CFU/g	Plate Count (Aerobic)	✓ PASS
17.	Amino Acid Ratio (AAA)	N/A	N/A	Amino Acid Analysis	— N/A
18.	Molecular Weight Confirmation	Theoretical: 663.4 Da	Confirmed	ESI-TOF Mass Spectrometry	✓ PASS

RP-HPLC (214nm)



ESI-TOF MASS SPECTRUM



This product was tested by independent ISO-accredited laboratories located throughout North America. Full chromatographic data, mass spectra, and endotoxin reports are available upon request.

QC Release Authorized By:

CResearch

Date: **June 1, 2026**