

Certificate of Analysis (COA)

Product Name: Nicotinamide Adenine Dinucleotide (NAD⁺)

Lot No.: 3132025

Storage Conditions: 2–8°C

Report Date: 05 March 2026

Test Results

Test Item	Specification	Result
Appearance	White to off-white lyophilized powder	Conforms
Molecular Weight (MS)	664.1 ±1.0 Da	663.43Da
Purity (HPLC)	>98%	99.2%
Retention Time (HPLC)	+0.2 min of standard	Conforms
Assay (Content)	95.0–105.0%	99.0%
Related Substances (HPLC)	≤ 1.0% each / ≤ 2.0% total	0.8%
Water Content	≤ 8.0%	4.1%
Solubility	Freely soluble in water	Conforms
pH (1% solution)	2.0 – 3.0	2.6
Endotoxin	≤0.25 EU/mg	<0.05EU/mg
Total Aerobic Microbial Count (TAMC)	≤100 CFU/g	<10 CFU/g
Yeast & Molds Count	≤10 CFU/g	<10 CFU/g
Acetic Acid Content	≤ 5000 ppm	1200 ppm
TFA Content	≤ 50 ppm	10 ppm
DCM Content	≤ 50 ppm	ND
DMF Content	≤ 50 ppm	ND