



Bulk Naturals Wholesale LLC

bulknaturalswholesale.com

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COENZYME (NAD) NICOTINAMIDE ADENINE DINUCLEOTIDE

CERTIFICATE OF ANALYSIS

LOT: BN221204/CA

Manufacture Date: December 18, 2022

QA Signature: Steven Konert

Expiration Date: December 17, 2025

Specification	Unit	Parameter	Test Method	Result
Appearance	--	White, crystalline powder.	Eyeballing	White crystalline powder.
Solubility	--	Freely soluble in water and alcohol; soluble in glycerin.	Weight/volume method.	Conform
Ultraviolet Absorption	--	0.63-0.67 (A245/A262)	UV	0.65
Infrared Identification	--	Conform to standard spectrum.	IR	Conform
Assay	% ^{°C}	98.5-101.5	HPLC	100.0
Melting Range	--	128-131	Melting point apparatus	129.5-130.5
Readily Carbonizable Substances		Not deeper than the matching fluid.	Colorimetry	Conform
Loss on Drying	%	≤ 0.5	Drying method	0.01
Residue on Ignition	%	≤ 0.1	Combustion method	0.04
Heavy metals (Pb)	ppm	≤ 20	Colorimetry	< 20
Mercury	ppm	≤ 0.1	AFS	< 0.005
Lead	ppm	≤ 2.0	AAS	< 0.05
Arsenic	ppm	≤ 0.1	AFS	< 0.005
Cadmium	ppm	≤ 0.1	AAS	< 0.005
Total Plate Count	cfu/	≤ 10 ³	Plating	< 10
Yeast & Molds	gcfu/	≤ 10 ²	Plating	< 10
E. Coli	gcfu/g	Negative	Plating	Negative
Salmonella	/25g	Negative	Plating	Negative

Shelf life is guaranteed for two years from the date of production if the product is stored in the unopened original container between 15°C - 30°C, protected from light. Containers that have been opened should be tested at least yearly to ensure potency. Although Bulk Naturals Wholesale LLC. believes the above information to be accurate based on the information available to Bulk Naturals, it is the responsibility of the customer and user of the material to perform its own investigation and due diligence prior to using to verify that the product purchased from Bulk Naturals meets their quality requirements and is appropriate for the use to which the product is to be put. The information provided above shall be considered effective only for the lot with which the information is being provided. Use and purchase of this material are subject to Bulk Naturals Wholesale LLC. standard terms and conditions, which supersede any conflicting terms contained on the Buyer's purchase order or any document or instrument supplied by Buyer.