



Bulk Naturals Wholesale LLC

bulknaturalswholesale.com

212 N Jefferson Unit 12A Ava, Mo 65608, USA / Phone: 1-573-465-0612

COENZYME (NAD) NICOTINAMIDE ADENINE DINUCLEOTIDE

CERTIFICATE OF ANALYSIS

LOT: BN20230916/CA

Manufacture Date: September 16, 2023

QA Signature: Steven Konert

Expiration Date: September 15, 2025

Specification	Parameter	Results
Active Ingredieint		
Assay(w/w HPLC)	NLT 97.0%	99.7%
Purity(HPLC)	NLT 98.5%	99.8%
Physical Control		
Appearance	White to off white powder	Conform
Identification	Conform with NMR	Conform
Odor	Characteristic	Conform
Na Content (ICP-OES)	NMT 0.5%	Conform
Loss on Drying	NMT 0.5%	0.08%
PH	2.0 - 4.0	Conform
Chemical Control		
Total Heavy Metals	NMT 10ppm	Conform
Arsenic (As)	NMT 0.5ppm	<0.05
Mercury(Hg)	NMT 0.5ppm	<0.005
Cadmium(Cd)	NMT 0.5ppm	<0.01
Lead (Pb)	NMT 0.5ppm	<0.5
Ethanol	NMT 2.0%	Not detected
Methanol	NMT 1.0%	0.04%
Spectroscopy Detection		
A340/A260	0.39-0.47 (0.43±0.04)	0.45
A250/A260	0.75-0.91 (0.83±0.08)	0.84
A280/A260	0.19-0.23 (0.21±0.02)	0.22
ε260 (PH=7.5)	16.2-19.8 (10 ³ L·mol ⁻¹ ·cm ⁻¹)(18.0±1.8) ×10 ³	18.4 × 10 ³
ε340 (PH=10)	5.7-6.9 (103L·mol ⁻¹ ·cm ⁻¹)(6.3±0.6) ×10 ³	6.3 × 10 ³
Microbiological Control		
Total Plate Count	NMT 1,000cfu/g	Conform
Yeast, Mold & Fungi	NMT 100cfu/g	Conform
E.Coli	NMT 3MPN/g	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.