

# Certificate of Analysis

Product: NMN

Batch: NMN250403 Expiry April 2027



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Product Name	Beta-Nicotinamide Mononucleotide (NMN)		
Version	G1:Low bulk density (NLT 0.18-0.20g/ml) only for powder form		
Batch No.	NMN250403	CAS#	1094-61-7
Manufacture Date	Apr. 15th, 2025	Expiry Date	Apr. 14th, 2027
Country of Origin	P.R. China	Reference	EFPE 18
Item	Specification	Result	Test Method
<b>Active Ingredient</b>			
Assay(% on dry basis)	99.00% ~ 102.00%	99.92%	HPLC
Purity	NLT 99.00%	99.87%	HPLC
<b>Physical Control</b>			
Identification	<sup>1</sup> H NMR spectra correspond to reference standard	Conforms	<sup>1</sup> H NMR
	<sup>13</sup> C NMR spectra correspond to reference standard	Conforms	<sup>13</sup> C NMR
	LC-MS retention time and m/z correspond to reference standard	Conforms	LC-MS
Appearance	White to off-white crystalline powder	Conforms	Visual
Odor & taste	Characteristic	Conforms	Organoleptic
Appearance of solution	5%w/v in water; Colorless to pale yellow and clear	Conforms	Organoleptic
Sodium Content	NMT 1.0%	Conforms	GB5009.268-2016
Water Content	NMT 1.0%	0.20%	Karl Fischer
PH(1.0g/100mL(25°C))	3.0-4.5	3.75	ChP 2020
Bulk Density	0.18-0.20g/ml	0.20g/ml	USP-NF 2024
Residue Solvents	Ethanol: NMT 500ppm	45ppm	USP-NF 2024
<b>Chemical Control</b>			
Arsenic (As)	NMT 0.5ppm	Conforms	ICP-MS
Cadmium (Cd)	NMT 0.5ppm	Conforms	ICP-MS
Lead (Pb)	NMT 0.5ppm	Conforms	ICP-MS
Mercury (Hg)	NMT 0.1ppm	Conforms	ICP-MS
<b>Microbiological Control</b>			
Total Plate Count	NMT 1000cfu/g	<10cfu/g	USP-NF 2024
Yeast & Mold	NMT 100cfu/g	<10cfu/g	USP-NF 2024
Salmonella	Negative	Negative	USP-NF 2024
E.Coli	Negative	Negative	USP-NF 2024
Staphylococcus Aureus	Negative	Negative	USP-NF 2024
Pseudomonas aeruginosa	Negative	Negative	USP-NF 2024
Bile-tolerant Gram-Negative Bacteria	Negative	Negative	USP-NF 2024
Candida albicans	Negative	Negative	USP-NF 2024
Clostridia	Negative	Negative	USP-NF 2024
Coliforms	NMT 0.92MPN/g	<0.3MPN/g	GB4789.3

Approver: Ashley Burrows, Health Supply Chain Manager