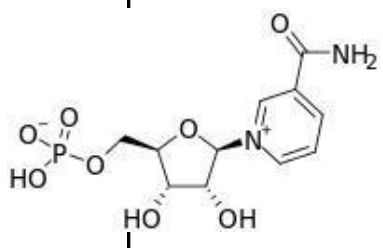




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## Certificate of Analysis

<b>PRODUCT NAME</b>	Nicotinamide Mononucleotide (Vacuum-dried)	<b>Structure</b> 
<b>STANDARD TYPE</b>	Dietary Ingredient Bulk Material	
<b>LOT NUMBER</b>	NMN240302V	
<b>REPORT NUMBER</b>	NMN240302	
<b>DATE OF SAMPLE</b>	02/03/2024	
<b>DATE OF REPORT</b>	06/03/2024	
<b>CHEMICAL NAMES</b>	$\beta$ -Nicotinamide Mononucleotide	
<b>CHEMICAL FORMULA</b>	C <sub>11</sub> H <sub>15</sub> N <sub>2</sub> O <sub>8</sub> P	
<b>MELICULAR WEIGHT(MW)</b>	334.2	
<b>MAXIMUM ABSORPTION WAVELENGTH</b>	260nm	
<b>CHEMICAL FAMILY</b>	Vitamin Derivatives	
<b>CAS NUMBER</b>	1094-61-7	

## ASSAY RESULTS

TEST	METHOD	ANALYTE	SPECIFICATION	RESULT
Identify	NMR	Nicotinamide Mononucleotide	Conforms to structure	Conforms to structure
Purity	HPLC/UV(wt%)	Nicotinamide Mononucleotide	≥99%	99.87%
Moisture	Karl Fischer	Water	≤5%	0.15%
Sodium content			≤1%	0.02%
Bulk density		Weight density	>0.55g/ml	0.54g/ml
PH value		in water at 100mg/ml	2.0-4.0	3.07
Heavy Metals		Lead	<5 ppm	0.01ppm
		Arsenic	<5 ppm	0.01ppm
Microbial	USP<2021>	Total Plate Count	< 750CFU/g	60CFU/g
	USP<2022>	E. coli	< 30MPN/100g	N.D.
Appearance	NA	Color, Form	White to yellowish powder	White powder

## STORAGE CONDITIONS

Room temperature in a dry place, long term storage at-20°C

## RE-TEST DATE

3/2026 under the above conditions

Tested by: Liu gang Date: 2024.03.06

Approved by: Susan Sun, Ph.D. Date: 2024.03.06

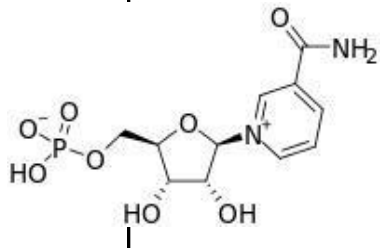




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## Certificate of Analysis

<b>PRODUCT NAME</b>	Nicotinamide Mononucleotide (Freeze-dried)	<b>Structure</b> 
<b>STANDARD TYPE</b>	Dietary Ingredient Bulk Material	
<b>LOT NUMBER</b>	NMN240318F	
<b>REPORT NUMBER</b>	NMN240318	
<b>DATE OF SAMPLE</b>	18/03/2024	
<b>DATE OF REPORT</b>	22/03/2024	
<b>CHEMICAL NAMES</b>	$\beta$ -Nicotinamide Mononucleotide	
<b>CHEMICAL FORMULA</b>	C <sub>11</sub> H <sub>15</sub> N <sub>2</sub> O <sub>8</sub> P	
<b>MOLECULAR WEIGHT(MW)</b>	334.2	
<b>MAXIMUM ABSORPTION WAVELENGTH</b>	260nm	
<b>CHEMICAL FAMILY</b>	Vitamin Derivatives	
<b>CAS NUMBER</b>	1094-61-7	

## ASSAY RESULTS

TEST	METHOD	ANALYTE	SPECIFICATION	RESULT
Identify	NMR	Nicotinamide Mononucleotide	Conforms to structure	Conforms to structure
Purity	HPLC/UV(wt%)	Nicotinamide Mononucleotide	$\geq 99\%$	99.94%
Moisture	Karl Fischer	Water	$\leq 5\%$	0.16%
Sodium content			$\leq 1\%$	0.01%
Bulk density		Weight density	$< 0.20\text{g/ml}$	0.16g/ml
PH value		in water at 100mg/ml	2.0-4.0	3.10
Heavy Metals		Lead	$\leq 1.0\text{ ppm}$	0.01ppm
		Arsenic	$\leq 1.0\text{ ppm}$	0.01ppm
Microbial	USP<2021>	Total Plate Count	$\leq 750\text{CFU/g}$	50CFU/g
	USP<2022>	E. coli	$\leq 30\text{MPN/100g}$	N.D.
Appearance	NA	Color, Form	White to yellowish powder	White powder

## STORAGE CONDITIONS

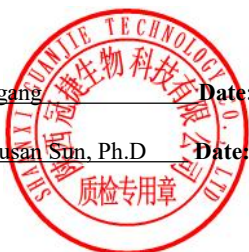
Room temperature in a dry place, long term storage at -20°C

## RE-TEST DATE

06/2025 under the above conditions

Tested by: Liu gang Date: 2024.03.22

Approved by: Susan Sun, Ph.D Date: 2024.03.22





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Shaanxi Guanjie Technology Co., Ltd.