

## Certificate of Analysis

Product Name	$\beta$ -Nicotinamide Mononucleotide(NMN)	Batch Number	YG20210802
CAS No.	1094-61-7	Manufacture Date	20210802
Standard	In-house Standard	Analysis Date	20210805
Quantity	320kg	Expiry Date	20230801

ITEMS	SPECIFICATION	RESULTS
Appearance	White to yellowish crystalline powder	Conforms
Physical Characteristics		
Water Content	$\leq 1.0\%$	0.13%
Ethanol (GC)	$\leq 0.5\%$	0.034%
pH Value	2.0-4.0	3.4
Loose Density	Actual Value	0.371g/ml
Tight Density	Actual Value	0.546g/ml
Heavy metals		
Lead(Pb)	$\leq 0.5\text{ppm}$	Negative
Arsenic(As)	$\leq 0.5\text{ppm}$	Negative
Mercury(Hg)	$\leq 0.5\text{ppm}$	Negative
Cadmium(Cd)	$\leq 0.5\text{ppm}$	Negative
Microbiological Tests		
Total Microbial Count	$\leq 750\text{cfu/g}$	Conforms
Coliform	$\leq 3.0\text{MPN/g}$	Conforms
Assay(HPLC)	$\geq 99.0\%$	99.8%
Storage Condition:	Store in dry and cold places, keep the package sealed well.	
Conclusion:	Conforms to the in-house Standard.	
Tested by	Fangchao Yang	Approved by Yulian Liu