



Address: East of Tianmu Road, Laiyang Development
Zone, Yantai City, Shandong Province, 265200, China

Specification for β -Nicotinamide Mononucleotide (NMN)

Product Name	β -Nicotinamide Mononucleotide (NMN)	
CAS No.	1094-61-7	
Molecular Formula	$C_{11}H_{15}N_2O_8P$	
Molecular Weight	334.2	
Test Items	Specification	Test Method
Appearance	White to off-white powder	Visual
Moisture	$\leq 2\%$	Karl. Fisher method
Bulk Density	0.4-0.7g/ml	Average Bulk Density
Identification	Consistent with the control map	IR
pH	3.0-4.0	pH meter
Purity	$\geq 98\%$	HPLC
Assay	98.00-101.00%	HPLC
Ethanol	$\leq 500\text{ppm}$	GC
Heavy Metal		
Lead (Pb)	$\leq 0.5\text{ ppm}$	ICP-MS
Arsenic (As)	$\leq 0.5\text{ ppm}$	ICP-MS
Cadmium (Cd)	$\leq 0.5\text{ ppm}$	ICP-MS
Mercury (Hg)	$\leq 0.1\text{ ppm}$	ICP-MS
Microbiological Tests		
Total Microbial Count	$\leq 750\text{CFU/g}$	AOAC 990.12
Mold and Yeast	$\leq 100\text{CFU/g}$	AOAC 997.02
<i>E. Coli.</i>	Negative/10g	AOAC 991.14
<i>Salmonella</i>	Negative/10g	AOAC 998.09
<i>Staphylococcus aureus</i>	Negative/10g	AOAC 2003.07
Packing and Storage		
Packing:	Sealed export grade drum & double of sealed plastic bag.	
Storage:	Store in cool and dry place, keep away from strong light and heat.	
Shelf Life:	24 months under the conditions above and in its original packaging.	