

**CERTIFICATE OF ANALYSIS**

<b>Product Name</b>	<b><math>\beta</math>-Nicotinamide Adenine Dinucleotide</b>	<b>Manufacture Date</b>	<b>2024.11.13</b>
Batch Quantity	100kg	Certificate Date	2024.11.20
Specification	98%	Expiration Date	2026.11.12

<b>Item</b>	<b>Specification</b>	<b>Result</b>
Purity (HPLC)	98%	98.7%
Assay of $\beta$ -NAD (enzym.) (calc. on dry basis)	97%	98.7%
Appearance	White to yellowish powder	Complies
Sodium content(IC)	<1.0%	0.0065%
Water content(KF)	<5.0%	1.30%
pH value in water(100mg/ml)	2.0-4.0	2.35
Methanol (By GC)	<1.0%	0.013%
Ethanol (By GC)	<12.0%	0.0049%
Pb	<0.10ppm	Complies
As	<0.10ppm	Complies
Hg	<0.05ppm	Complies
Microbiology		
Total Plate Count	<10000cfu/g	Complies
Total Yeast & Mold	<1000cfu/g	Complies
E. Coli	Negative	Negative
Salmonella	Negative	Negative

**Conclusion: Complies with specification.**

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