

Certificate of Analysis

Product	NAD+ (β-Nicotinamide adenine dinucleotide)	CAS No.:	53-84-9
Product No.:	NJ	Molecular Formula	C ₂₁ H ₂₇ N ₇ O ₁₄ P ₂
Chemical Name	β-Nicotinamide adenine dinucleotide (free acid) <i>Dinucleotide coenzyme (small molecule); not a peptide</i>		
Molecular Weight	663.43	Quantity	1.0g
Batch No.	NJ-3005E	Storage Temp.	-20±5°C
Mfg. Date	Aug. 14 th , 2026	Retest Date	Aug. 14 th , 2028

【ITEMS】		【SPECIFICATIONS】	【RESULTS】
Appearance		White to off-white / pale-yellow powder	White to off-white powder
Solubility		Soluble in water	Conforms
Solution clarity and color		Clear solution	Conforms
Identification	HPLC	The retention time of the principal peak corresponds to that of the reference standard.	Conforms
	Mass spectrum	664.1±0.5 ([M+H]⁺)	663.8
	UV (A ₂₆₀)	Consistent with the reference structure.	Conforms
Related substances (HPLC)		Largest single impurity: NMT 0.5%	0.13%
		Total impurities: NMT 1.0%	0.26%
Assay (HPLC)		NLT 96.0% (on anhydrous basis)	99.1%
Residual solvent		Ethanol NMT 5000ppm	31ppm
		Methanol NMT 3000ppm	N.D
Water content (KF)		NMT 5.0%	3.9%
Heavy metals		NMT 10ppm	Conforms
Residue on ignition (sulfated ash)		NMT 0.1%	0.05%
Bacterial endotoxins		NMT 5 EU/mg	3.6EU/mg
Microbial Limits		Total aerobic bacteria ≤100cfu/g	Conforms
		Mould & Yeast ≤10cfu/g	Conforms
		Escherichia coli: absence in 1g	absent
Storage		Keep in light container, protect from light, store at a temperature of -20±5°C.	
Report			Date: Jun. 4 th , 2026
Reviewer			Date: Jun. 4 th , 2026
Conclusion: This batch of product complies with Enterprise Standard.			

It is only supplied as chemical product.
It is only for R&D use.