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CERTIFICATE OF ANALYSIS

β -NAD⁺, ER Grade

β -nicotinamide adenine dinucleotide(Coenzyme-I, β -NAD⁺); Formula: C₂₁H₂₇N₇O₁₄P₂

Formula weight: M_r = 663.4; CAS No.: 53-84-9

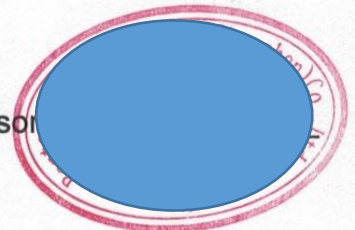
Maximum absorption wave length: 260 nm

Lot No. : BT01N318M110

Test items	Specification	Results
Appearance	White to yellowish powder	conform
Purity (HPLC)	≥95%	98.3%
Assay of β -NAD (enzym.) (calc. on dry basis)	≥90%	99.2%
Sodium content	≤1%	0.024%
Water content	≤8%	1.98%
pH value in water(100mg/ml)	2.0-4.0	2.40
Heavy metal content		
Pb	≤0.5 ppm	conform
As	≤0.5 ppm	conform
Total microbial count	≤750 CFU/g	7 CFU/g
Coliform	≤3MPN /g	N.D
Endotoxin	≤3 EU/mg	0.032 EU/mg

Conclusion: Conformable to all requested specifications
Date of assay: Nov. 16th, 2018
Expiry date: Nov. 10th, 2020
Storage: Keep dry and away from light, long term storage at -25°C to -15°C

Q. A. Supervisor



Other details are available upon request.