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## CERTIFICATE OF ANALYSIS

### $\beta$ -NMN, Grade I

$\beta$ -nicotinamide mononucleotide , Formula:  $C_{11}H_{15}N_2O_8P$

Formula weight:  $M_r = 334.2$ ; CAS No.: 1094-61-7

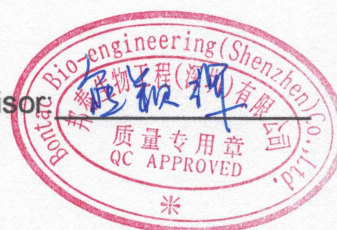
Maximum absorption wave length: 260 nm

Lot No. : BT05N119L150

Test items	Specification	Results
Appearance	White to yellowish powder	conform
Purity (HPLC)	$\geq 98\%$	99.7%
Sodium content (IC)	$\leq 1\%$	0.0057%
Water content(KF)	$\leq 5\%$	0.22%
pH value in water (100mg/ml)	2.0-4.0	3.18
Heavy metal content (AAS)		
Pb	$\leq 0.5$ ppm	conform
As	$\leq 0.5$ ppm	conform
Hg	$\leq 0.5$ ppm	conform
Cd	$\leq 0.5$ ppm	conform
Total microbial count (GB 4789.2)	$\leq 750$ CFU/g	N.D
Coliform (GB 4789.3)	$< 3$ MPN/g	N.D
Ethanol (By GC)	$\leq 2\%$	0.030%

Conclusion:	Conformable to all requested specifications
Date of assay:	Oct. 29th, 2019
Date of manufacture:	Oct. 25th, 2019
Expiry date:	Oct. 24th, 2021
Storage:	Keep dry and away from light, long term storage at $-25^{\circ}\text{C}$ to $-15^{\circ}\text{C}$

Q. A. Supervisor:



Other details are available upon request.

QC-F-SOP26-01-V1