

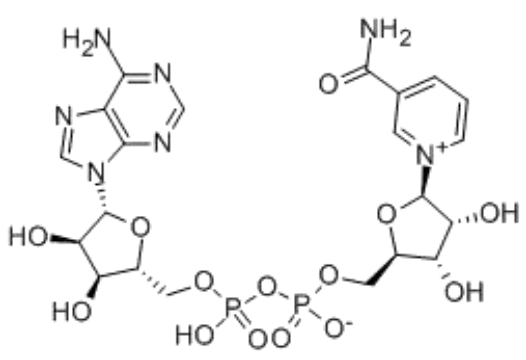


# Wuhan HengHeDa Pharm Co., Ltd

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Wuhan Economic& Technological Development Zone, Wuhan, China

## CERTIFICATE OF ANALYSIS

Product name	( $\beta$ -NAD <sup>+</sup> )	
CAS NO	53-84-9	
Molecular formula	C <sub>21</sub> H <sub>27</sub> N <sub>7</sub> O <sub>14</sub> P <sub>2</sub>	
Molecular weight	663.43	
Quantity	5KG	
Batch NO	HHD20221229	
Production date	2022.12.29	
Shelf Life	2024.12.28	
Test based on enterprise standard		
Test Item	Specification	Result
Appearance	Off-White to white powder	Conforms
Assay	≥95.0%	99.6%
Purity(HPLC)	≥95.0%	98.0%
Solubility	Soluble in water	Conforms
pH(100mg/ml)	2.0-4.0	2.47
Water	≤10.0%	2.39%
Methanol (by GC)	≤1.0%	0.02%
Ethanol (by GC)	≤2.0%	0.02%
Pb	≤0.5ppm	N.D
As	≤0.5ppm	N.D
Endotoxin	<0.25Eu/mg	<0.25Eu/mg
Total microbial count	≤750 CFU/g	<10CFU/g
Mold and yeast	≤50 CFU/g	<20CFU/g
Coliform	≤3MPN/g	<3MPN/g

Storage	Store in cool & dry place, keep away from strong light and heat.
Shelf life	2 years when properly stored.
Conclusion: This product complies with above specification	

Inspector  
Shen Wu

Director  
King Yang

