

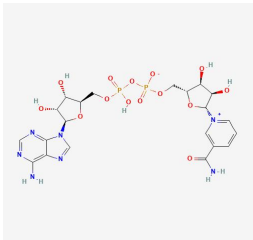


Technical Data Sheet

Tianjin Jincheng Biotechnology Co., Ltd.

Product Name: β -Nicotinamide Adenine Dinucleotide (NAD)

Chemical Structure:



Molecular Formula: C₂₁H₂₇N₇O₁₄P₂

Molecular Weight: 663.43

CAS No.: 53-84-9

Specifications

Item	Limit	Analysis method
Description	White to off-white powder	Visual
Identification (HPLC)	Retention time consistent with the reference standard	HPLC
Loss on drying	Not more than 8.0%	Gravimetric method
pH	2.0 to 4.0	pH meter
Purity (HPLC area %)	Not less than 99.0%	HPLC
Assay (on dry basis)	Not less than 97.0%	HPLC
Sodium content	Not more than 1.0%	ICP-OES
Bulk density	0.50 to 0.80 g/mL	USP <616>
Ethanol (residual)	Not more than 0.5%	GC
Lead (Pb)	Not more than 0.1 mg/kg	ICP-MS
Arsenic (As)	Not more than 0.1 mg/kg	ICP-MS
Cadmium (Cd)	Not more than 0.1 mg/kg	ICP-MS
Mercury (Hg)	Not more than 0.1 mg/kg	ICP-MS
Total plate count (TAMC)	Not more than 500 cfu/g	USP <61>
Mold and yeast	Not more than 50 cfu/g	USP <61>
Thermotolerant coliform	Not detectable	Microbiological method
Pseudomonas aeruginosa	Not detectable	USP <62>
Staphylococcus aureus	Not detectable	USP <62>
Salmonella	Not detectable	USP <62>
Bacterial endotoxins	Not more than 10 EU/mg	USP <85>

Recommended shelf life: 2 years

External packing: Fibre drum, 25 kg net

Inner packing: Double-layer PE bag

Storage: Preserve in tight containers, protected from light, in a cool and dry place.

Note: Analytical methods refer to current USP general chapters and the manufacturer's in-house standard; the product is manufactured and released against the manufacturer's standard. This document is for reference only; the quality of each batch shall be subject to the Certificate of Analysis (COA) supplied with the goods.

Preparation Date: Sep. 20, 2026 | Version: 1.0 | Prepared by:

Product code: JC-NAD-001 | Product name: β -Nicotinamide Adenine Dinucleotide (NAD)