NAD+

$C_{21}H_{27}N_7O_{14}P_2$ · CAS 53-84-9 · β-Nicotinamide adenine dinucleotide, powder

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

CHEMICAL FORM	FORMULA	CAS	PRIMARY ASSAY
β-Nicotinamide adenine dinucleotide, powder	$C_{21}H_{27}N_7O_{14}P_2$	53-84-9	≥95.0%
METHOD	**MINIMUM ORDER**	**LEAD TIME**	**STANDARD PACK**
HPLC	1 kg	1–7 days	1 kg foil pouch · 25 kg fiber drum

DESCRIPTION

β-NAD specified at ≥95.0% by HPLC, with water, pH and heavy metals; NAD+ and NADH are different materials and different specifications.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Assay (HPLC)	≥95.0%	As stated
Appearance	White to off-white powder	As stated
Identification	HPLC and UV conform	As stated
Water (Karl Fischer)	≤5.0%	As stated
pH (1% solution)	2.0–4.0	As stated
Heavy metals	Pb ≤3 · As ≤2 · Cd ≤1 · Hg ≤0.1 mg/kg	As stated
Microbiology	APC ≤1,000 cfu/g · yeast and mould ≤100 cfu/g · E. coli and Salmonella absent	As stated
Marker set	β-NAD ≥95.0% (HPLC)	Identity
Solubility	Freely soluble in water; the solution is acidic.	Matrix dependent

APPLICATIONS

- Capsules and tablets
- Powder sticks and drink mixes

AVAILABLE FORMS

- Powder
- Granulated on request

PACKING

- 1 kg foil pouch
- 25 kg fiber drum

STORAGE

Store in a cool, dry, well-ventilated area, away from direct sunlight and moisture. Keep the pack closed after sampling. The lot-specific retest date is shown on the batch COA.

DOCUMENTATION RELEASED WITH EACH LOT

- Batch-specific certificate of analysis
- Technical data sheet and safety data sheet
- Allergen, GMO, origin and residual-solvent statements
- Third-party reports on request

> **Catalog document.** This TDS describes the grade we can quote. The final specification, pack and documentation are confirmed in writing before the order. It is not a batch COA and does not report a result for a specific lot.