

**NAD+**

CAS NUMBER

53-84-9

MOLECULAR FORMULA

C₂₁H₂₇N₇O₁₄P₂

MOLECULAR WEIGHT

663.4 g/mol

LOT NUMBER

NAD-2411D

DATE OF ANALYSIS

August 21, 2026

RETEST DATE

August 20, 2028

ANALYTICAL LABORATORY

Third-party HPLC/MS**ANALYTICAL RESULTS**

TEST	METHOD	SPECIFICATION	RESULT
Appearance	Visual	White to off-white lyophilized powder	Conforms
Identity (molecular mass)	ESI-MS	663.4 g/mol +/- 1.0 Da	663.3 Da
Purity	RP-HPLC, UV 214 nm	NLT 98.0%	99.20%
Single largest impurity	RP-HPLC, UV 214 nm	NMT 1.0%	0.16%
Water content	Karl Fischer titration	NMT 8.0%	5.6%
Residual solvents	GC headspace, ICH Q3C	Meets ICH limits	Conforms
Bacterial endotoxins	LAL, USP <85>	< 1.0 EU/mg	Conforms

CONFORMS — lot NAD-2411D meets all specifications listed above.**CHROMATOGRAPHIC CONDITIONS**

Column: C18 reversed phase, 4.6 × 250 mm, 5 µm, 100 Å
Mobile phase A: 0.1% TFA in water · B: 0.1% TFA in acetonitrile
Gradient: 5-65% B over 30 min · Flow: 1.0 mL/min · 25 °C
Detection: UV 214 nm · Injection volume: 20 µL
Mass spectrometry: ESI, positive ion mode

STORAGE & HANDLING

Powder: -20°C, desiccated, protected from light.

RELEASED BY

Quality Control, Ascendentials LLC

DATE OF ISSUE

August 21, 2026**FOR LABORATORY RESEARCH USE ONLY — NOT FOR HUMAN OR VETERINARY USE.**

This certificate applies only to the lot identified above. Not for use in food, drugs, medical devices, or cosmetics.

Ascendentials LLC · COA-NAD-2411D · ascendentials.shop