

CERTIFICATE OF ANALYSIS

Third-party analytical testing · summary cover sheet

NAD+ (500mg)

AVL-NJ500

AVATA LABS SKU	AVL-NJ500
BATCH / LOT	NA500202028
DATE TESTED	2026-05-13
PURITY (HPLC-UV)	99.5%
PERFORMING LAB	Analytical Formulations, Inc.
SCOPE	Microbial · Heavy metals
ARTIFACT ID	coa_b1ff9222a8e40c8baa8bf492a6a7772a

INDEPENDENTLY VERIFIABLE

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ORDERED BY



AVATA LABS

Avata Labs

PRODUCT

NAME NAD+
SKU YPB.223
CATEGORY —

SAMPLE

BATCH NA500202028
TESTED 2026-05-13

DESCRIPTION

Vial with white powder — sealed with plastic security cap. Flag tag attached at neck with manufacturer / product SKU number, PO, and expiration.

PERFORMING LAB

Analytical Formulations, Inc.

8940 Fourwinds Drive STE 107, Windcrest, TX 78239

<https://analyticalformulations.com>

Lab-certified result data: 2026-06-02

Vial image
not provided

Submitted vial — YPB.223



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Purity Analytics LLC

ISSUED 2026-06-21 16:54:58 UTC
ISSUER Sectigo RSA Document Signing CA
ALGORITHM RSA-SHA512
FIELD PuritySignature
TYPE adbe.pkcs7.detached
CERT SERIAL 80EE9C34821454C706346FA64888B1B5
CERT SHA-256 E2467E56CFEE3DA8...AF9CBF0875552610
TIMESTAMP Sectigo RFC 3161 TSA

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ANALYTICAL RESULTS

COMPONENT	ANALYTE	SPECIFICATION	RESULT	P/F
b-NAD+	Qualitative ID	TS λ_{max} is a match compared to its characteristic reference standard	Matches	✓
	Percent Purity (Correlation Coefficient)	NLT 98% $r_{xy} = \frac{\sum (x_i - \bar{x})(y_i - \bar{y})}{\sqrt{\sum (x_i - \bar{x})^2} \cdot \sqrt{\sum (y_i - \bar{y})^2}}$	99.5 %	✓
b-NAD+	Quantitative Assay (Beer-Lambert)	NLT 95% label claim (mg/vial) $\% = \frac{A_{TS}}{A_{STD}} \times \frac{C_{STD}}{C_{TS}} \times 100$	553.66 mg	✓
	Heavy Metals (Total Quantity)	NMT 100ppb/vial (Pb, Cd, Hg, Ni, Fe, Co)	<10 ppb	✓
	TAMC (Total Aerobic Microbial Counts)	NMT 100 CFU @ 37°C/48h	0 CFU	✓
	TYMC (Total Yeast and Mold Counts)	NMT 10 CFU @ 30°C/48h	0 CFU	✓



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METHODS

- Qualitative ID - Lambda Max
- Percent Purity - Correlation Coefficient
- Quantitative Assay - Beer-Lambert
- Heavy Metals - Total Quantity
- TAMC (Total Aerobic Microbial Counts)
- TYMC (Total Yeast and Mold Counts)

Microbial specifications follow the Substances for Pharmaceutical Use compendium. UV-Vis measurements performed on a Jenway 6715 UV/Vis Spectrophotometer.



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PERFORMING LABORATORY & CERTIFICATION

PERFORMING LABORATORY

Analytical Formulations, Inc.

8940 Fourwinds Drive STE 107, Windcrest, TX 78239

<https://analyticalformulations.com>

A laboratory-authorized user certified on 2026-06-02 that the submitted result data and the Purity Analytics COA generated from that data accurately represent the laboratory's reported findings for the sample identified in this report.

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NOT FOR HUMAN OR VETERINARY CONSUMPTION. NOT FOR CLINICAL, DIAGNOSTIC, THERAPEUTIC, OR DRUG USE.

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DISCLAIMER & SCOPE OF TESTING

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Test results apply only to the specific sample identified by the SKU and Batch/Lot number on this report. The performing laboratory tested or reported the sample as received; chain of custody from the manufacturer, customer, distributor, or any upstream party to the laboratory is not certified by Purity Analytics LLC or the laboratory unless expressly stated in this report. Subsequent handling, storage, repackaging, reconstitution, relabeling, resale, distribution, or modification by any party may alter the attributes reported here.

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