Certificate of Analysis

ILS Laboratories
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(619) 329-3999 | ils-lab.com

NAD+ - 1500mg

Tested for: Frontier Aminos
FrontierAminos.com

PASS

COA #:	**COA-2026-HW0MAF**	Analysis Date:	**06/25/2026**
Lot Number:	**ND-MA-01**	Appearance:	**Good**
Accession #:	**ACC-2026-4520**	Sample Matrix:	**Liquid/Solution**
Labeled Content:	**1500mg**	Vial Size:	**30mL**
		Date Received:	**06/10/2026**

Scan to verify authenticity at ils-lab.com
Access Code: XSV7YBF7

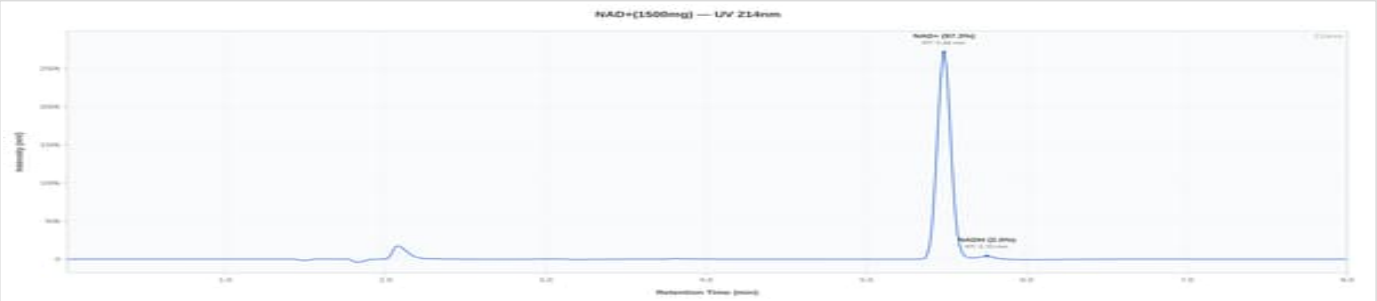
Method: **Full QC Panel**

Identity	Purity	
NAD+	**99.29%**	Fentanyl Free

Full QC Panel

Analyte	Specification	Result	Unit	Status
Purity (HPLC)	>= 95.0%	**99.29%**	%	**PASS**
Net Peptide Content	Report Only	**1573.65**	mg	N/A
Identity (HPLC-RTM)	NAD+	**Confirmed**	-	**PASS**
Fentanyl Screen	Immunoassay, 50 ng/mL cutoff	**Not Detected**	-	**PASS**

HPLC Chromatogram



NAD+ 1500mg - ND-MA-01: UV Chromatogram

Heavy Metals Analysis (ICP-MS)

Test	Specification	Result	Status
Arsenic (As)	NMT 1.5 ppm	*Not Detected*	**PASS**
Cadmium (Cd)	NMT 0.5 ppm	*Not Detected*	**PASS**
Chromium (Cr)	NMT 10 ppm	*Not Detected*	**PASS**
Mercury (Hg)	NMT 1.5 ppm	*Not Detected*	**PASS**
Lead (Pb)	NMT 1 ppm	*Not Detected*	**PASS**

Sterility Testing (PCR)

Test	Specification	Result	Status
Sterility (PCR)	No Growth	**No Growth**	**PASS**

Endotoxin Testing (USP <85>)

Test	Specification	Result	Status
Endotoxin (USP <85>)	Report Result	**NMT 0.05 EU/mL**	**Reported**

About this result: Endotoxin is reported as a quantitative value. Acceptable limits vary by product type and matrix, so no universal pass/fail threshold applies to RUO products. This result is below commonly referenced endotoxin thresholds.

Notes & Methodology

1. Date Tested: 06/25/2026. Methods: Full QC Panel.
2. The sample was confirmed to be NAD+ by HPLC. Identification by chromatographic retention time comparison with a reference standard.
3. Elemental impurities analyzed by ICP-MS per USP <233> methodology. Acceptance criteria are internal laboratory quality screening limits for research-use materials and do not represent evaluation against any specific pharmacopeial monograph or product specification.
4. Endotoxin tested per USP <85> kinetic chromogenic method. Acceptance criteria per client specification.
5. Purity determined by RP-HPLC area normalization at 214 nm.
6. Quality System: ILS Laboratories operates an ISO/IEC 17025 quality management system. Peptide testing is performed for Research Use Only.
7. This certificate reports analytical results for the sample(s) submitted to ILS Laboratories for testing. All sample identifications, product names, brand names, lot/batch numbers, and labeled content are provided by the submitting party and have not been independently verified. Results reflect only the analytical testing of the specific sample(s) provided and do not constitute an evaluation or endorsement of the manufacturer's processes, quality systems, or overall production. ILS Laboratories makes no representations regarding the intended use, safety, efficacy, regulatory status, or intellectual property ownership of any materials tested.

ILS LABS

Issued by ILS Laboratories

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ils-lab.com

Dr. Greg Kalyuzhny

Lab Director

06/25/2026

COA #: **COA-2026-HW0MAF**

Access Code: **XSV7YBF7**

Verify: portal.ils-lab.com/verify/-P8FYaEFj0SYThjB

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