# Certificate of Analysis

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

## NAD+ - 500mg

**Tested for: Retaboy Testing**

**PASS**

Scan to verify authenticity at ils-lab.com
**Access Code: CHP3QSJA**

| | | | |
|---|---|---|---|
| COA #: | **COA-2026-BSOCIS** | Analysis Date: | **08/27/2026** |
| Lot Number: | **2026D5100-6** | Appearance: | **Good** |
| Accession #: | **ACC-2026-11584** | Sample Matrix: | **Lyophilized** |
| Labeled Content: | **500mg** | Date Received: | **07/21/2026** |

Method: **Full QC Panel**

| Identity | Purity | |
|---|---|---|
| **NAD+** | **97.70%** | Fentanyl Free |

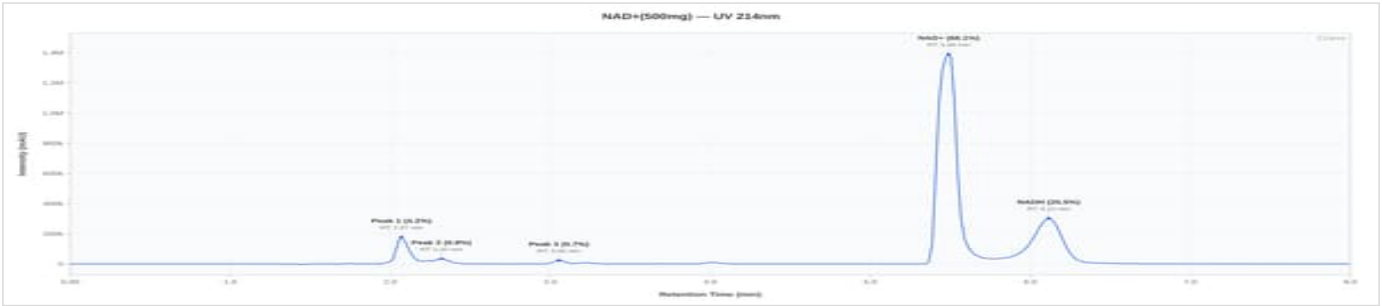


*NAD+ 500mg - 2026D5100-6*

### Purity, Identity & Quantitation (HPLC)

| Analyte | Specification | Result | Unit | Status |
|---|---|---|---|---|
| **Purity (HPLC)** | >= 95.0% | **97.70%** | % | PASS |
| **Net Peptide Content** | Report Only | **521.03** | mg | N/A |
| **Identity (HPLC-RTM)** | NAD+ | **Confirmed** | - | PASS |
| **Fentanyl Screen** | Immunoassay, 50 ng/mL cutoff | **Not Detected** | - | PASS |

### HPLC Chromatogram




*Representative chromatogram, Dedicated V0*

### HPLC Conformity Testing Results (2 samples tested)

| Sample | Purity | NPC | ID | Result |
|---|---|---|---|---|
| **Dedicated V0** | 97.70% | 521.03 mg | Confirmed | PASS |
| **Conformity V1** | 97.60% | 519.09 mg | Confirmed | PASS |
| **Mean** | **97.65%** | **520.06 mg** | — | — |
| **Std Dev** | **0.0500%** | **0.9700 mg** | — | — |

## 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** |
| **Lead (Pb)** | NMT 1.0 ppm | *Not Detected* | **PASS** |
| **Mercury (Hg)** | NMT 1.5 ppm | *Not Detected* | **PASS** |
| **Chromium (Cr)** | NMT 10.0 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: 08/27/2026. Methods: Purity, Identity & Quantitation (HPLC).
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. Chromatogram shown is representative: Dedicated V0 (97.70% purity, closest to batch mean of 97.65%).
7. Accreditation Scope: ILS Laboratories maintains ISO/IEC 17025 accreditation for activities listed in its published PJLA scope. Peptide testing reported on this certificate is performed for Research Use Only.
8. 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.

**Issued by ILS Laboratories**
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**Dr. Greg Kalyuzhny**
Lab Director
8/27/2026

COA #: **COA-2026-BSOCIS**
Access Code: **CHP3QSJA**
Verify: portal.ils-lab.com/verify/JBdKzQS3YT5jtwas
Issued: 8/27/2026