# TEST REPORT

E-mail: lin@peptideformulationlab.com
Web： peptideformulationlab.com

**Task Number** #570248

**Testing ordered >** 03 Jul '26

**Sample received >** 06 Jul '25

| | |
|---|---|
| **Client** | ShiLai™ Peptide Technologies |
| **Sample** | NAD+ (1000 mg) |
| **Manufacturer** | ShiLai™ Peptide Technologies |
| **Batch** | NDTS26006-2 |

**Sample description >**

See picture or pictures attached.

**Tests requested >**

Assessment of a peptide cartridges.

**Results >**

| | |
|---|---|
| NAD+ | 1000.95mg |
| Assay (HPLC) | 99.86% |
| Identity (MS) | Confirmed |
| Purity | 99.86% |
| Related Impurities | ≤0.8% |
| pH | 5.8 ± 0.2 |
| Endotoxin | <0.5 EU/mg |
| Sterility | Pass |

**Analysis conducted >** 09 Oct 2026

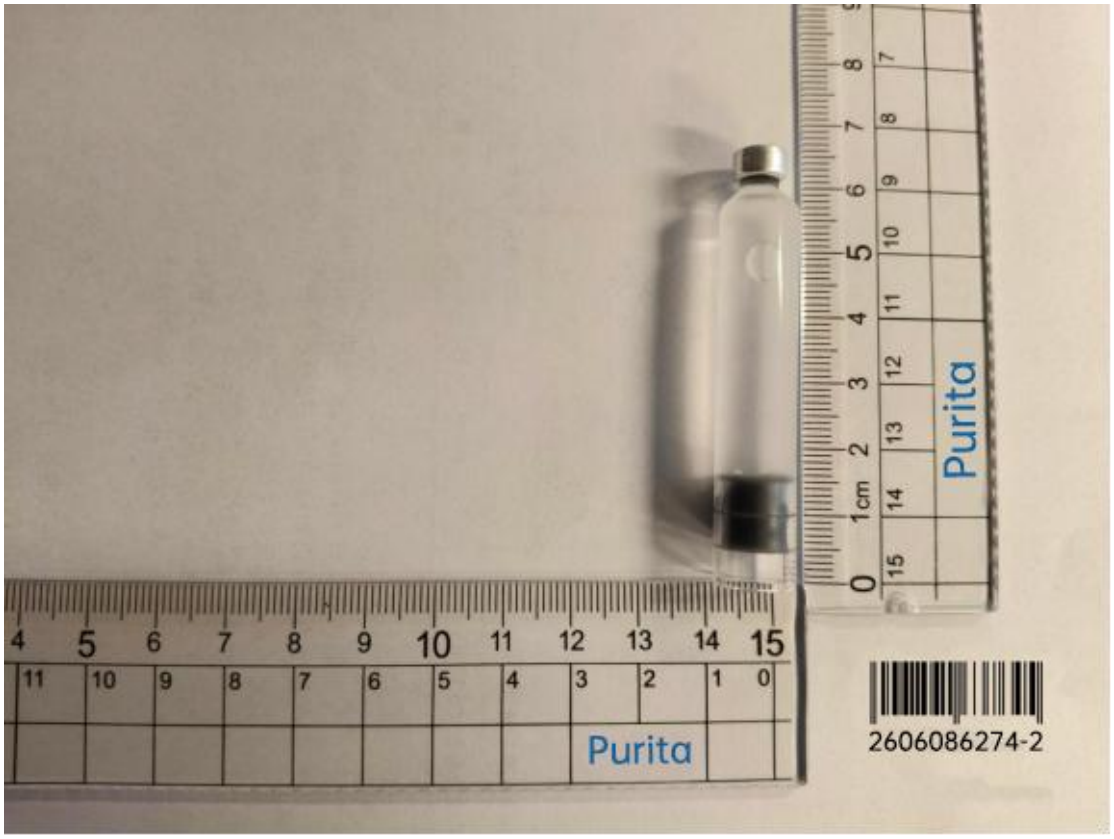
**Signature >**

**Go to the website peptideformulationlab.com and contact the relevant person in charge to verify this test document.**

58KC741926RM3

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## The photo of sample：



# TEST REPORT

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## NAD+ Injection Pen (illustrative laboratory data) Stability by HPLC (1000mg)

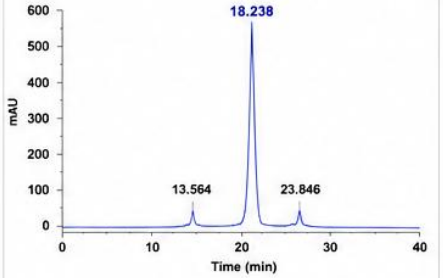
| | | | | | |
|---|---|---|---|---|---|
| **Product Name** | : | NAD+ Injection Pen (illustrative laboratory data) - (1000mg) | **Sample Conc.** | : | 333.333mg/mL |
| **Batch No.** | : | NDTS260206-2 | **System** | : | Agilent 1260 Infinity II |
| **Strength** | : | 1000 mg / Pen | **Software** | : | OpenLAB CDS |
| **Diluent** | : | Bacteriostatic Water for Injection | **Run Time** | : | 40 min |
| **Column** | : | Waters Xbridge BEH C18, 4.6 × 150 mm, 3.5 µm | **Wavelength** | : | 260 nm |
| **Mobile Phase** | : | A: 0.1% TFA in Water<br>B: 0.1% TFA in Acetonitrile | **Data Rate** | : | 10 Hz |
| | | | **Study Condition** | : | Reconstituted and stored at 2–8 °C |
| **Gradient** | : | 5% B to 60% B in 30 min | **Evaluation** | : | Area Normalization |
| **Flow Rate** | : | 1.0 mL/min | **Report Date** | : | 2026-10-09 |
| **Column Temp** | : | 30 °C | | | |
| **Detection** | : | UV 260 nm | | | |
| **Injection Vol.** | : | 10 µL | | | |

### SUMMARY OF RESULTS (2–8 °C)

| Time Point | Assay (%) | Purity (%) | Total Impurities (%) | pH |
|---|---|---|---|---|
| Day 0 (Initial) | 100.0 | 99.86 | 0.14 | 7.20 |
| Day 30 | 99.8 | 99.75 | 0.25 | 7.17 |
| Day 60 | 99.4 | 99.62 | 0.38 | 7.15 |
| Day 90 | 99.0 | 99.48 | 0.52 | 7.13 |

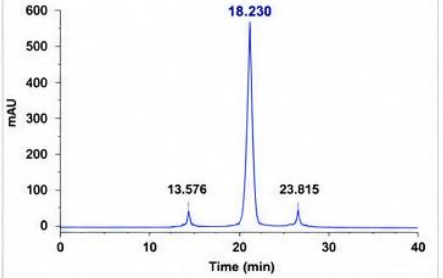
### HPLC CHROMATOGRAMS (UV 260 nm)

**Day 0 (Initial)**



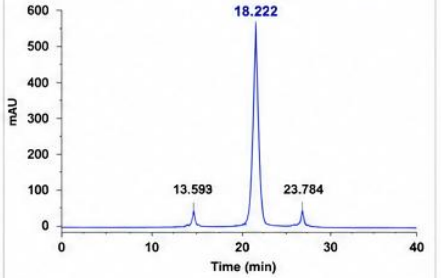

| Peak No. | Retention Time (min) | Peak Name | Area (mAU*s) | Area (%) |
|---|---|---|---|---|
| 1 | 13.564 | Impurity 1 | 16,241 | 0.14 |
| 2 | 18.238 | NAD+ | 12,197,654 | 99.86 |
| 3 | 23.846 | Impurity 2 | 14,017 | 0.12 |
| Total | | | 12,227,912 | 100.00 |

**Day 30**



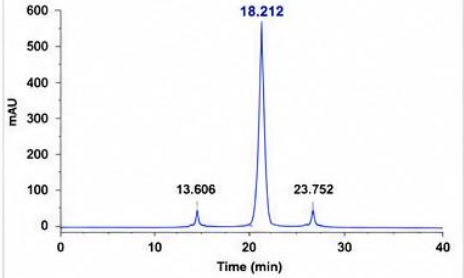

| Peak No. | Retention Time (min) | Peak Name | Area (mAU*s) | Area (%) |
|---|---|---|---|---|
| 1 | 13.576 | Impurity 1 | 15,118 | 0.12 |
| 2 | 18.230 | NAD+ | 11,995,072 | 99.75 |
| 3 | 23.815 | Impurity 2 | 12,601 | 0.10 |
| Total | | | 12,022,791 | 100.00 |

**Day 60**




| Peak No. | Retention Time (min) | Peak Name | Area (mAU*s) | Area (%) |
|---|---|---|---|---|
| 1 | 13.593 | Impurity 1 | 15,917 | 0.12 |
| 2 | 18.222 | NAD+ | 11,872,663 | 99.62 |
| 3 | 23.784 | Impurity 2 | 11,465 | 0.10 |
| Total | | | 11,899,045 | 100.00 |

**Day 90**

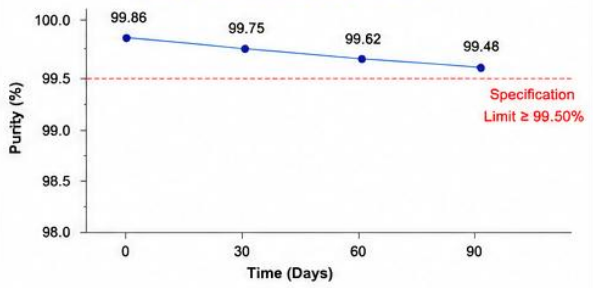



| Peak No. | Retention Time (min) | Peak Name | Area (mAU*s) | Area (%) |
|---|---|---|---|---|
| 1 | 13.606 | Impurity 1 | 16,386 | 0.14 |
| 2 | 18.212 | NAD+ | 11,745,602 | 99.48 |
| 3 | 23.752 | Impurity 2 | 11,825 | 0.10 |
| Total | | | 11,773,813 | 100.00 |

### STABILITY DATA (2–8 °C)

| Time Point | Assay (%) | Purity (%) | Total Impurities (%) | pH | Appearance |
|---|---|---|---|---|---|
| Day 0 (Initial) | 100.0 | 99.86 | 0.14 | 7.20 | Clear, Colorless |
| Day 30 | 99.8 | 99.75 | 0.25 | 7.17 | Clear, Colorless |
| Day 60 | 99.4 | 99.62 | 0.38 | 7.15 | Clear, Colorless |
| Day 90 | 98.0 | 98.48 | 0.52 | 7.13 | Clear, Colorless |

### Purity Trend Over 90 Days (2–8 °C)




### SYSTEM SUITABILITY (Day 0)

| Parameter | Result | Acceptance Criteria |
|---|---|---|
| Retention Time (NAD+) | 18.238 min | N/A |
| Theoretical Plates (N) | 19,842 | ≥ 10,000 |
| Tailing Factor (T) | 1.06 | ≤ 2.0 |
| Resolution (Rs, Imp1) | 4.78 | ≥ 1.5 |
| Resolution (Rs, Imp2) | 5.41 | ≥ 1.5 |

### CONCLUSION

Under refrigerated conditions (2–8 °C), the reconstituted NAD+ Injection Pen (1000 mg) maintained excellent chemical stability for 90 days. Purity remained above 99.48%, with minimal increase in total impurities and no significant change in pH or appearance.