



Title:

## Certificate of Analysis (CoA)

**Date:** 5/19/2026  
**Date Tested:** 6/1/2026  
**Customer:** Peptides Optimized LLC  
**Testing material:** NAD  
**Lot Number:** ND7944  
**BT Sample ID:** 005000039453048  
**Labeled Peptide Content/Potency:** 1000mg  
**Storage:** R.T.  
**Visual Description:** Large brown vial: white sample, pink label, silver crimp, black plastic cap.  
**Labeled as:** NAD  
**Manufacturer:** N/A  
**Testing Purpose:** FTIR and HPLC analysis for the identification, purity, potency and composition of a peptide product. It does not provide information on particulate matter, microbial contamination or presence of endotoxins.



| Test                                         | Method        | Specification                                                                  | Result                                                                                   |
|----------------------------------------------|---------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| General Appearance                           | USP<br><630>  | white powder                                                                   | white powder                                                                             |
| Mass                                         | USP<br><41>   | As recorded                                                                    | 1018.6 mg                                                                                |
| FTIR Identification and Composition Analysis | USP<br><197A> | Sample spectrum should confirm the content of peptide via characteristic bands | FTIR sample spectrum confirms the presence of NAD with addition of excipient(s)/fillers. |
| HPLC Purity of Peptide Assay                 | USP<br><621>  | Specifications: $\geq 98\%$                                                    | 99.8 %                                                                                   |
| HPLC Potency Assay                           | USP<br><621>  | Specifications: 90 – 110% of 1000 mg                                           | 1125.7 mg (112.5 %)                                                                      |
| Peptide-to-Excipients Ratio                  | USP<br><1151> | Recommended ratios of (1:2) to (1:10) for (peptide: excipients)                | 1125.7 : 2544.3 mg (1:2.2)                                                               |

The results of the CoA relate only to the item(s) tested and applied to the sample as received.