PRIME PEPTIDES UK

# Certificate of Analysis



# NAD+

500 mg · Lyophilised powder

**BATCH NAD-500-22**

| PURITY · HPLC | IDENTITY · LC-MS | BATCH STATUS |
|---|---|---|
| **≥ 99.0 %** | **Confirmed** | **Released** |
| Threshold ≥ 98.0 % | 663.4 g/mol observed | Meets specification |

## PRODUCT IDENTIFICATION

| | | | |
|---|---|---|---|
| Product name | NAD+ | Strength | 500 mg per vial |
| Chemical name | β-Nicotinamide adenine dinucleotide (oxidised form) | Physical form | Lyophilised powder |
| CAS number | 53-84-9 | Container | 10 mL glass vial, flip-off seal |
| Molecular formula | $C_{21}H_{27}N_7O_{14}P_2$ | Manufactured | Oct 2026 |
| Molecular weight | 663.4 g/mol | Retest / expiry | Oct 2028 |
| Description | Pyridine-nucleotide coenzyme (not a peptide); supplied as lyophilised powder | | |

## ANALYTICAL RESULTS

| TEST | METHOD | SPECIFICATION | RESULT | STATUS |
|---|---|---|---|---|
| **Appearance** | Visual | White / off-white lyophilised powder | **White powder** | ✔ Pass |
| **Identity** | LC-MS (ESI) | Mass consistent with $C_{21}H_{27}N_7O_{14}P_2$ | **Conforms** | ✔ Pass |
| **Purity** | RP-HPLC, 260 nm | ≥ 98.0 % | **≥ 99.0 %** | ✔ Pass |
| **Net content** | Gravimetric | 500 mg per vial, ± 5 % | **Conforms** | ✔ Pass |

## STORAGE & HANDLING

**Lyophilised powder**
Store refrigerated at 2–8 °C. For long-term storage keep at −20 °C.

**Light & moisture**
Protect from light and moisture. Keep the vial sealed until reconstitution.

**Reconstituted solution**
Use promptly; store at 2–8 °C and avoid repeated freeze–thaw cycles.

**Conclusion.** The product has been tested and complies with the specifications stated above.

**For research use only.** This product is supplied strictly for in-vitro laboratory research. Not for human or veterinary use, not a drug, food, cosmetic or medical device. Keep out of reach of children.

**Prime Peptides UK**
primepeptidesuk.com · contact@primepeptidesuk.com