

# Certificate of Analysis (COA)

Product Name: Nicotinamide Adenine Dinucleotide (NAD<sup>+</sup>)

Lot No.: 3132025

Storage Conditions: 2–8°C

Report Date: 24 June 2026

## Test Results

| Test Item                            | Specification                         | Result     |
|--------------------------------------|---------------------------------------|------------|
| Appearance                           | White to off-white lyophilized powder | Conforms   |
| Molecular Weight (MS)                | 663.43 ±1.0 Da                        | 664.4Da    |
| Purity (HPLC)                        | >98%                                  | 99.5%      |
| Retention Time (HPLC)                | +0.2 min of standard                  | Conforms   |
| Assay (Content)                      | 95.0–105.0%                           | 99.2%      |
| Related Substances (HPLC)            | ≤ 1.0% each / ≤ 2.0% total            | 0.39%      |
| Water Content                        | ≤ 8.0%                                | 3.6%       |
| Solubility                           | Freely soluble in water               | Conforms   |
| pH (1% solution)                     | 3.5 – 5.5                             | 4.3        |
| Endotoxin                            | ≤0.25 EU/mg                           | <0.05EU/mg |
| Total Aerobic Microbial Count (TAMC) | ≤100 CFU/g                            | <10 CFU/g  |
| Yeast & Molds Count                  | ≤10 CFU/g                             | <10 CFU/g  |
| Acetic Acid Content                  | ≤ 5000 ppm                            | 850 ppm    |
| TFA Content                          | ≤ 50 ppm                              | 7 ppm      |
| DCM Content                          | ≤ 50 ppm                              | ND         |
| DMF Content                          | ≤ 50 ppm                              | ND         |