

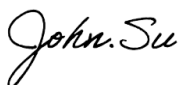
ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2026-03-31 10:41:14
Date of Next Testing: 2030-03-30 10:41:14
Product Name: **β-Nicotinamide adenine dinucleotide (NAD)**
CAS Number: 53-84-9
Specifications & Purity: Moligand™, ≥98%(HPLC)
Lot #: C2624461
SKU #: **N111610**
Version: **0**
Analysis #: **665304**
Storage Temperature: Store at -20°C

| Parameter | Limit Values | Result |
|---|---|---|
| Water by Karl Fischer | 0-8 (%) | 4.96450 % |
| Purity(HPLC) | 98-100 (%) | 99.64100 % |
| abs-ratio(a/b)(E250/E260) | 0.8-0.86 | 0.84175 |
| Molar extinction coefficient(H ₂ O, 260.0 nm) (calcd.on anh.sub | 17000-18500 | 17070.00000 |
| abs-ratio(2a/2b)(E280/E260) | 0.19-0.23 | 0.20375 |
| Solvent Content | 0-3 (%) | 1.60000 % |
| Appearance (N111610) | white to pale yellow Powder, Crystals and/or Chunk | white to pale yellow Powder, Crystals and/or Chunk |
| Carbon NMR Spectrum | Conforms to Structure | Conforms to Structure |
| Solubility in H ₂ O , Colorless to Faint Yellow , Clear , 50 mg/ml H ₂ O | pass | Pass |
| Enzyme detection test | to pass test | to pass test |



John Su
QA & QC Manager