

## Certificate of Analysis

Date of Testing: 2025-03-05 13:59:16

Date of Next Testing: 2029-03-04 13:59:16

Product Name: **β-Nicotinamide adenine dinucleotide (NAD)**

CAS Number: 53-84-9

Specifications & Purity: Moligand™, ≥98%(HPLC)

Lot #: B2528564

SKU #: **N111610**

Version **0**

Analysis #: **467777**

Storage Temperature: Store at -20°C

| Parameter                                                                                         | Limit Values                                          | Result                                                |
|---------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|
| abs-ratio(2a/2b)(E280/E260)                                                                       | 0.19-0.23                                             | 0.20                                                  |
| Purity(HPLC)                                                                                      | 98-100 (%)                                            | 99.64300 %                                            |
| abs-ratio(a/b)(E250/E260)                                                                         | 0.8-0.86                                              | 0.83                                                  |
| Molar extinction coefficient(H <sub>2</sub> O, 260.0 nm)<br>(calcd.on anh.sub                     | 17000-18500                                           | 17964.00                                              |
| Water by Karl Fischer                                                                             | 0-8 (%)                                               | 7.88 %                                                |
| Solvent Content                                                                                   | 0-3 (%)                                               | 0.10 %                                                |
| Appearance (N111610)                                                                              | white to pale yellow Powder,<br>Crystals and/or Chunk | white to pale yellow Powder,<br>Crystals and/or Chunk |
| Carbon NMR Spectrum                                                                               | Conforms to Structure                                 | Conforms to Structure                                 |
| Solubility in H <sub>2</sub> O , Colorless to Faint Yellow<br>, Clear , 50 mg/ml H <sub>2</sub> O | pass                                                  | Pass                                                  |
| Enzyme detection test                                                                             | to pass test                                          | to pass test                                          |



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