

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-11-11 17:39:44

Date of Next Testing: 2028-11-10 17:39:44

Product Name: **β-Nicotinamide adenine dinucleotide phosphate sodium salt hydrate(NADP)**

CAS Number: 1184-16-3

Specifications & Purity: ≥97%

Lot #: J2431190

SKU # N107170

Version 1

Analysis #: 395042

Storage Temperature: Store at -20°C, Argon charged

| Parameter                                                                                      | Limit Values                          | Result                                |
|------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------|
| Solvent Content (by GC), Acetone                                                               | 0-6 (%)                               | 2.36000 %                             |
| Purity(Spectrophotometric)(Dry Basis)                                                          | 97-100 (%)                            | 98.88600 %                            |
| Water by Karl Fischer                                                                          | 0-9 (%)                               | 0.26590 %                             |
| Enzymatic Purity(Dry Basis)                                                                    | 97-100 (%)                            | 98.02100 %                            |
| Purity(HPLC)                                                                                   | 97-100 (%)                            | 97.84800 %                            |
| Sodium (Na)(anhydrous)                                                                         | 1.5-4.3 (%)                           | 3.25000 %                             |
| Appearance (N107170)                                                                           | White to Off-White Powder or Crystals | White to Off-White Powder or Crystals |
| Proton NMR spectrum                                                                            | Conforms to Structure                 | Conforms to Structure                 |
| Solubility in H <sub>2</sub> O , Colorless to Faint Yellow , Clear , 50 mg/ml H <sub>2</sub> O | pass                                  | Pass                                  |



John Su  
QA & QC Manager