

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing:	2023-09-25 15:10:50
Date of Next Testing:	2027-09-24 15:10:50
Product Name:	<b>β-Nicotinamide adenine dinucleotide phosphate hydrate</b>
CAS Number:	53-59-8 (anhydrous)
Specifications & Purity:	95%
Lot #:	I2321890
SKU #	<b>N101669</b>
Version	<b>1</b>
Analysis #:	<b>271066</b>
Storage Temperature:	Store at -20°C

Parameter	Limit Values	Result
Sodium(Na)	0-0.04 (%)	0.02 %
Water by Karl Fischer	0-9 (%)	3.49 %
Purity(HPLC)	95-100 (%)	99.13400 %
Potassium(K)	0-0.04 (%)	0.03 %
Solvent Content	0-4 (%)	2.05 %
Appearance (N101669)	White to Off-White Powder or Solid or Chunks	White to Off-White Powder or Solid or Chunks
Solubility in H <sub>2</sub> O , Colorless to Faint Yellow , Clear , 50 mg/ml H <sub>2</sub> O	pass	Pass
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Phosphorus NMR Spectra	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager