

Certificate of Analysis

Date of Testing: 2023-07-13 14:08:03

Date of Next Testing: 2027-07-12 14:08:03

Product Name: **β-Nicotinamide adenine dinucleotide phosphate hydrate**

CAS Number: 53-59-8 (anhydrous)

Specifications & Purity: 95%

Lot #: I1925153

SKU #: N101669

Analysis: 251278

Storage Temperature: Store at -20°C

Parameter	Limit Values	Result
Sodium(Na)	0-0.04 (%)	0.02 %
Carbon by Elemental Analysis	32-34.1 (%)	33.05 %
Water by Karl Fischer	0-9 (%)	3.68 %
Nitrogen by Elemental Analysis	10.9-13.5 (%)	11.59 %
Purity(HPLC)	95-100 (%)	95.60400 %
Potassium(K)	0-0.04 (%)	0.01 %
Solvent Content	0-4 (%)	2.66 %
Appearance (N101669)	White to Off-White Powder or Solid or Chunks	White to Off-White Powder or Solid or Chunks
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in H2O , Colorless to Faint Yellow , Clear , 50 mg/ml H2O	pass	Pass



John Su
QA & QC Manager