

## Certificate of Analysis

Date of Testing: 2023-09-11 12:10:18  
 Date of Next Testing: 2027-09-10 12:10:18  
 Product Name: **Nicotinamide**  
 CAS Number: 98-92-0  
 Specifications & Purity:  $\geq 99.5\%$ (HPLC)  
 Lot #: I2307463  
 SKU #: **N108086**  
**Analysis:** **266127**  
 Storage Temperature: Desiccated

Parameter	Limit Values	Result
Melting point	129-132 (°C)	130.83000 °C
Zinc(Zn)	0-5 (ppm)	1.03 ppm
Calcium(Ca)	0-10 (ppm)	2.14 ppm
Nickel(Ni)	0-5 (ppm)	0.82 ppm
Iron(Fe)	0-5 (ppm)	0.57 ppm
Ignition Residue (as sulfate)	0-0.2 (%)	0.18 %
Sodium(Na)	0-50 (ppm)	3.81 ppm
Copper(Cu)	0-5 (ppm)	1.24 ppm
Manganese(Mn)	0-5 (ppm)	0.42 ppm
Purity(HPLC)	99.5-100 (%)	99.68800 %
(Pb)Lead	0-5 (ppm)	1.04 ppm
loss on drying, 20 °C (HV)	0-0.2 (%)	0.00 %
Magnesium(Mg)	0-5 (ppm)	0.56 ppm
Cadmium(Cd)	0-5 (ppm)	0.28 ppm
Cobalt(Co)	0-5 (ppm)	0.60 ppm
Potassium(K)	0-50 (ppm)	2.82 ppm
Chloride (Cl-)	0-50 (ppm)	3.18 ppm
Sulfate(SO42-)	0-50 (ppm)	1.06 ppm
Chromium(Cr)	0-5 (ppm)	0.37 ppm
Appearance (N108086)	White Powder or Crystals	White Powder or Crystals
Solubility in H2O , colorless and clear (50mg/ml)	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure



ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

A handwritten signature in black ink that reads "John Su". The signature is written in a cursive, flowing style.

John Su  
QA & QC Manager