

## Certificate of Analysis

Date of Testing: 2022-02-09 16:20:19  
 Date of Next Testing: 2026-02-08 16:20:19  
 Product Name: **Nicotinamide**  
 CAS Number: 98-92-0  
 Specifications & Purity:  $\geq 99.5\%$ (HPLC)  
 Lot #: B2207567  
 SKU #: **N108086**  
**Analysis:** **065026**  
 Storage Temperature: Desiccated

Parameter	Limit Values	Result
Melting point	129-132 (°C)	131.73000 °C
Zinc(Zn)	0-5 (ppm)	2.31 ppm
Calcium(Ca)	0-10 (ppm)	5.25 ppm
Nickel(Ni)	0-5 (ppm)	2.31 ppm
Iron(Fe)	0-5 (ppm)	1.12 ppm
Ignition Residue (as sulfate)	0-0.2 (%)	0.19 %
Sodium(Na)	0-50 (ppm)	11.42 ppm
Copper(Cu)	0-5 (ppm)	3.02 ppm
Manganese(Mn)	0-5 (ppm)	2.50 ppm
Purity(HPLC)	99.5-100 (%)	99.90100 %
(Pb)Lead	0-5 (ppm)	4.21 ppm
loss on drying, 20 °C (HV)	0-0.2 (%)	0.01 %
Magnesium(Mg)	0-5 (ppm)	2.39 ppm
Cadmium(Cd)	0-5 (ppm)	2.31 ppm
Cobalt(Co)	0-5 (ppm)	4.01 ppm
Potassium(K)	0-50 (ppm)	32.02 ppm
Chloride (Cl-)	0-50 (ppm)	11.96 ppm
Sulfate(SO42-)	0-50 (ppm)	15.63 ppm
Chromium(Cr)	0-5 (ppm)	2.31 ppm
Appearance (N108086)	White powder	White powder
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in H2O , colorless and clear (50mg/ml)	pass	Pass



ALADDIN SCIENTIFIC CORPORATION

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

John Su  
QA & QC Manager