

## CERTIFICATE OF ANALYSIS

<b>Product Name</b>	Nicotinamide		
<b>CAS NO</b>	98-92-0		
<b>Batch Number</b>	20220616	<b>Manufacture Date</b>	20220616
<b>Molecular Formula</b>	C6H6N2O	<b>Molecular Weight</b>	122.12
<b>Report Date</b>	20220616	<b>Expiry Date</b>	20240615

Item of Analysis	Specification	Results
Assay (By HPLC)	98.5 - 101.5%	99.40%
<b>Organoleptic</b>		
Appearance	Powder	Conforms
Color	Needle white crystal or powder	Conforms
Solubility	Freely soluble in water and in alcohol. Soluble in Glycerin.	Conforms
<b>Physical Characteristics</b>		
Melting Range	128 - 131 deg.C	128.2-128.9 deg.C
Loss on drying	≤ 0.5%	0.37%
Residue on ignition	≤ 0.1%	0.08%
Readily Carbonizable Substances	To comply	Conform
<b>Heavy metals</b>		
Total Heavy Metals	≤0.003%	<0.003%
Lead (Pb)	2ppm NMT	Conform
Arsenic (As)	2ppm NMT	Conform
Cadmium (Cd)	2ppm NMT	Conform
Mercury (Hg)	0.5ppm NMT	Conform
Chloride	≤0.053%	<0.014%
Sulfate	≤0.15%	<0.03%
<b>Microbiological Tests</b>		
Total Plate Count	10,000cfu/g Max	Conform
Coliforms	30cfu/g Max	Conform
Yeast and mould	100cfu/g Max	Conform
Salmonella	Absent in 25g	Absent
Staphylococcus	Negative	Negative

**Storage:** Store in tight, light-resistant containers, avoid exposure to direct sunlight, moisture and excessive heat  
**Shelf Life:** 24 months if store under the conditions above and stay in original packaging.

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