

### **CERTIFICATE OF ANALYSIS**

<b>Product Name</b>	Nicotinamide
<b>CAS NO</b>	98-92-0
<b>Lot Number:</b>	Not available (data may vary slightly with different lots or batches)
<b>Expiration Date:</b>	24 months from production date
<b>Storage:</b>	Store in tight, light-resistant containers, avoid exposure to direct sunlight, moisture and excessive heat

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%

Microbiological Tests		
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

“Certified in compliance with the terms of the US-Canada Organic Equivalency Arrangement. The above data was obtained using the test indicated and is subject to the deviation inherent in the test method. Results may vary under other test methods or conditions.

This report is not to be signed.

All data are as per our supplier.

**Disclaimer:** This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy themselves as to the suitability & completeness of such information for their own particular use.

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