

**Certificate of Analysis** 

## (Representative Sample Certificate)

Product Name: Vitamin B3 (Niacinamide) PC

INCI Name: Niacinamide
CAS Number: 98-92-0

**Lot Number:** Not available (data may vary slightly with different lots or batches)

**Expiration Date:** 36 months from production date

Property	Specification	Analysis
Appearance	Crystalline powder	Crystalline powder
(Visual)		
Color	White	White
(Visual)		
Assay	99.0 - 101.0% w/w	99.5% w/w
(HPLC)		
Related Substances - 3-Cyanodyridine	0.10% w/w MAX	0.00% w/w
(HPLC)		
Related Substances - Any Unknown	0.10% w/w MAX	0.04% w/w
Impurity		
(HPLC)		
Related Substances - Total of Impurities	0.2% w/w MAX	0.1% w/w
(HPLC)		
Nicotinic Acid	100 ppm MAX	77 ppm
(HPLC)		
pH of Solution	6.0 - 7.5	7.2
(Ph.Eur. of Nicotinamide)		
Clarity of Solution	3.00 NTU MAX	0.28 NTU
(Ph.Eur. of Nicotinamide)		
Color Values (CIELAB) L*	90.0 - 101.0	98.2
(Color Instrument Measurement)		
Color Values (CIELAB) a*	-10.0 to 10.0	0.0
(Color Instrument Measurement)		
Color Values (CIELAB) b*	-10.0 to 10.0	0.4
(Color Instrument Measurement)		_
Color of Solution (calc./BY)	7 MIN	7
(Ph.Eur. of Nicotinamide)		

<u>Disclaimer</u>: 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 themself as to the suitableness & completeness of such information for their own particular use.



Melting Range Start Point	128 - 131°C	129°C
(Ph.Eur. of Nicotinamide)		
Melting Range End Point	128 - 131°C	130°C
(Ph.Eur. of Nicotinamide)		
Particle Size Fraction - 50 µm minimum	90% w/w MIN	100% w/w
(Sieve analysis)		
Particle Size Fraction - 250 µm minimum	8% w/w MAX	<1% w/w
(Sieve analysis)		
Sulphated Ash	0.10% w/w MAX	0.03% w/w
(Ph.Eur. of Nicotinamide)		
Heavy Metals	10 ppm MAX	<10 ppm
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(USP (method II) of Niacinamide) Chloride	70 mg/kg MAX	<70 mg/kg
	70 Hig/ kg MAX	170 Hig/ Ng
(Limit Test JP) Sulfate	190 mg/kg MAX	<190 mg/kg
	170 Hig/ kg MAX	<170 Hig/ kg
(Limit Test JP) Readily Carbonizable Substances	Passes test	Pass
-	Passes test	Pass
(USP of Niacinamide)  Identification - UV	0.63 - 0.67	Done
	0.63 - 0.67	Pass
(UV, USP of Niacinamide)		
Identification - IR	Passes test	Pass
(IR, EP/USP of Niacinamide)		
Loss on Drying	0.5% w/w MAX	0.0% w/w
(Ph.Eur. of Nicotinamide)		
Lead*	1 ppm MAX	Pass
(USP <730>)		
Total Aerobic Microbial Count*	100 CFU/g MAX	Pass
(Ph.Eur. 2.6.12)		
Total Combined Yeast & Mold*	100 CFU/g MAX	Pass
(Ph.Eur. 2.6.12)		
E. coli*	Negative in 1g	Pass
(Ph.Eur. 2.6.13)		
Staphylococcus aureus*	Negative in 1g	Pass
(Ph.Eur. 2.6.13)		
Pseudomonas aeruginosa*	Negative in 1g	Pass
(Ph.Eur. 2.6.13)		
Candida albicans*	Negative in 1g	Pass
(Ph.Eur. 2.6.13)		
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"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.

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