

## CERTIFICATE OF ANALYSIS

### NIACINAMIDE PC

**Product Code:** 14345

**Batch No. :** 11455

**Re-Test Date :** 04/2028

Test	Result	Limits / Specifications	Dimension / Units
<b>Appearance</b> visual	crystalline powder	crystalline powder	
<b>Colour</b> visual	white	white	
<b>Assay</b> HPLC	99.8	99.0 to 101.0	% w/w
<b>Related Substances:</b>			
3-cyanopyridine HPLC	< 0.05	max. 0.10	% w/w
Any unknown impurity HPLC	< 0.05	max. 0.10	% w/w
Total of impurities HPLC	< 0.1	max. 0.2	% w/w
<b>Nicotinic acid</b> HPLC	88	max. 100	ppm
<b>pH of solution</b> Ph.Eur. of Nicotinamide	6.5	6.0 to 7.5	
<b>Clarity of solution</b> Ph.Eur. of Nicotinamide	0.16	max. 3.00	NTU
<b>Colour values (CIELAB) L*</b> Colour Instrument Measurement	100.0	90.0 to 101.0	
<b>Colour values (CIELAB) a*</b> Colour Instrument Measurement	0.1	-10.0 to 10.0	
<b>Colour values (CIELAB) b*</b> Colour Instrument Measurement	0.0	-10.0 to 10.0	
<b>Colour of solution (calc./BY)</b> Ph.Eur. of Nicotinamide	7	min. 7	
<b>melting range start. point</b> Ph. Eur. of Nicotinamide	128.8	128 to 131	°C
<b>melting range end. point</b> Ph. Eur. of Nicotinamide	129.8	128 to 131	°C
<b>Particle Size Fraction</b>			
min. 50 µm sieve analysis	100	min. 90	% w/w
min. 250 µm sieve analysis	3	max. 8	% w/w
<b>Sulphated Ash</b> Ph.Eur. of Nicotinamide	< 0.05	max. 0.10	% w/w
<b>Heavy Metals</b> USP (method II) of Niacinamide	0.9	max. 10	ppm

## CERTIFICATE OF ANALYSIS

### NIACINAMIDE PC

Product Code: 14345

Batch No. : 10666

Re-Test Date : 01/2027

Test	Result	Limits / Specifications	Dimension / Units
<b>Chloride</b> Limit test JP	<70	max. 70	mg/kg
<b>Sulfate</b> Limit test JP	<190	max. 190	mg/kg
<b>Readily carbonizable substances</b> USP of Niacinamide	passes test	passes test	
<b>Identification</b> UV, USP of Niacinamide	0.65	0.63 to 0.67	
<b>Identification</b> IR, EP/USP of Niacinamide	corresponds	corresponds	
<b>Loss on drying</b> Ph.Eur. of Nicotinamide	corresponds	max. 0.5	% w/w
<b>Lead</b> USP <730>	corresponds*	max. 1	ppm
<b>Microbiology</b> Total Aerobic Microbial Count Ph. Eur. 2.6.12	corresponds*	max. 100	CFU/g
Total Combined Yeast and Moulds Ph. Eur. 2.6.12	corresponds*	max. 100	CFU/g
Escherichia coli Ph. Eur. 2.6.13	corresponds*	negative in 1 g	
Staphylococcus aureus Ph. Eur. 2.6.13	corresponds*	negative in 1 g	
Pseudomonas aeruginosa Ph. Eur. 2.6.13	corresponds*	negative in 1 g	
Candida albicans Ph. Eur. 2.6.13	corresponds*	negative in 1 g	

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