

## CERTIFICATE OF ANALYSIS

### NIACINAMIDE PC

Product Code: 14345

Batch No. : 10759

Re-Test Date : 02/2027

Test	Result	Limits / Specifications	Dimension / Units
<b>Appearance</b> visual	crystalline powder	crystalline powder	
<b>Colour</b> visual	white	white	
<b>Assay</b> HPLC	99.5	99.0 to 101.0	% w/w
<b>Related Substances:</b>			
3-cyanopyridine HPLC	0.01	max. 0.10	% w/w
Any unknown impurity HPLC	0.04	max. 0.10	% w/w
Total of impurities HPLC	0.1	max. 0.2	% w/w
<b>Nicotinic acid</b> HPLC	74	max. 100	ppm
<b>pH of solution</b> Ph.Eur. of Nicotinamide	7.3	6.0 to 7.5	
<b>Clarity of solution</b> Ph.Eur. of Nicotinamide	0.23	max. 3.00	NTU
<b>Colour values (CIELAB) L*</b> Colour Instrument Measurement	98.3	90.0 to 101.0	
<b>Colour values (CIELAB) a*</b> Colour Instrument Measurement	0.0	-10.0 to 10.0	
<b>Colour values (CIELAB) b*</b> Colour Instrument Measurement	0.4	-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	129	128 to 131	°C
<b>melting range end. point</b> Ph. Eur. of Nicotinamide	130	128 to 131	°C
<b>Particle Size Fraction</b>			
min. 50 µm sieve analysis	99	min. 90	% w/w
min. 250 µm sieve analysis	1	max. 8	% w/w
<b>Sulphated Ash</b> Ph.Eur. of Nicotinamide	0.03	max. 0.10	% w/w
<b>Heavy Metals</b> USP (method II) of Niacinamide	10	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	corresponds	0.63 to 0.67	
<b>Identification</b> IR, EP/USP of Niacinamide	corresponds	corresponds	
<b>Loss on drying</b> Ph.Eur. of Nicotinamide	0.1	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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