

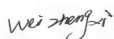
CERTIFICATE OF ANALYSIS
No. 0058

Product Name	Nicotinamide	Manufacture Date	Feb.01,2024
Batch No.	NM2402001	Analysis Date	Feb.05,2024
Lot Size	20000kg	Expiry Date	Jan.31,2027
Executive Standard	EP10.0	Order No.	P00535-01

Analysis Item	Unit	Specification	Test Method	Result
Appearance	—	White or almost white, crystalline powder or colorless crystals	Eyeballing	White crystalline powder
Identification of TLC *	—	Should meet standards	TLC	Conform
Infrared Identification *	—	Conform to standard spectrum	IR	Conform
Assay	%	99.0-101.0	Perchloric acid titration	100.0
Melting range	°C	128-131	Melting point apparatus	129.5-130.0
pH (5% solution)	—	6.0-7.5	pH meter	6.7
Clarity and color of the solution	—	Clarified and not dayker than BY7	Colorimetry	Clarified and shallower than BY7
Related substances (Unspecified impurities)	%	≤0.10	HPLC	0.04
Related substances (Total)	%	≤0.2	HPLC	0.04
Loss on Drying	%	≤0.5	Drying method	0.01
Residue on ignition	%	≤0.1	Combustion method	0.05
Mercury *	ppm	≤0.1	ICP-MS	<0.01
Lead *	ppm	≤2.0	ICP-MS	<0.05
Arsenic *	ppm	≤1.0	ICP-MS	<0.01
Cadmium *	ppm	≤1.0	ICP-MS	<0.01
Total Plate Count *	cfu/g	≤10 ³	Plating	<10
Yeast & Molds *	cfu/g	≤10 ²	Plating	<10
E. Coli *	cfu/g	Negative	Plating	Negative
Salmonella *	/25g	Negative	Plating	Negative

Conclusion: Complies with the requirements of EP10.0.

Note: The items marked with * are for internal sampling inspection, in which the results of hazardous elements are from the external inspection report, and the results of other items are from internal inspection.

QUALITY MANAGER: 

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