BaseBulk

CERTIFICATE OF ANALYSIS

Product Name	Nicotinamide (Food Grade & USP)
Batch No	NC-0426LG
Manufacturing Date	22.04.2026
Expiry Date	21.04.2029
Standard	USP 2022 and EP 10.0
Issue Date	27.04.2029

Analysis Item	Unit	Specification	Test Method	Result
Appearance	—	White crystalline powder	Visual Inspection	Complies
Solubility	—	Freely soluble in water and in anhydrous ethanol, slightly soluble in methylene chloride	Visual Inspection	Complies
Identification A	—	Infrared Absorption	Infrared Absorption	Complies
Identification B	—	A245/A262 ratio is 0.63–0.67	Ultraviolet Absorption	0.66
Identification C	—	Thin-layer Chromatography	TLC	Complies
Assay	%	99.0–101.0	Potentiometric Titration	100.2
Melting Range	℃	128–131	Melting Point Apparatus	128.7–129.2
Appearance of Solution	—	Not more intensely coloured than BY7	Visual Inspection	Complies

pH	—	6.0–7.5	pH Detectors	6.97
Readily Carbonizable Substances	—	No more color than matching Fluid A	Visual Inspection	Complies
Loss On Drying	%	≤0.5	Oven Drying	0.03
Sulfated Ash	%	≤0.1	EP 2.4.14	0.01
Residue on Ignition	%	≤0.1	USP<281>	0.01
Heavy Metals	ppm	≤20	CP2020<0821>	<20
Lead	ppm	≤0.5	CP2020<0406>	<0.5
Arsenic	ppm	≤1	CP2020<0822>	<1
Mercury	ppm	≤0.1	CP2020<2321>	<0.1
Cadmium	ppm	≤0.5	CP2020<2321>	<0.5
Aerobic Plate Count	CFU/g	≤100	Plate	<100
Moulds and Yeasts	CFU/g	≤50	Plate	<50
Coliform	MPN/g	≤10	Plate	<10
Related Substances (Unspecified)	%	≤0.10	HPLC	0.034
Related Substances (Total)	%	≤0.2	HPLC	0.036
E. coli (annual test)	MPN/g	Negative	GB 4789.38-2012 I	Negative
Salmonella (annual test)	/25g	Negative	GB 4789.4-2016	Negative
Bulk Density (annual test)	g/ml	0.5–0.6	CP2020	Complies