



CERTIFICATE OF ANALYSIS

Product Name:	Zinc Citrate Dihydrate
Batch Number:	20231229200 B
Manufacture Date:	2023-12-29
Shelf Life:	48 months
Quantity:	5000kg

Physical & Chemical Characteristics

Analysis Item	Specification	Result
Appearance	White odorless crystal or crystalline powder	Coincidence
Zinc Assay (%)	$\geq 31.0\%$	31.88%
Loss on Drying (%)	$\leq 1.0\%$	0.15%
Chloride (%)	$\leq 0.05\%$	$<0.05\%$
Sulfate (%)	$\leq 0.05\%$	$<0.05\%$
Iron (mg/kg)	≤ 100	<0.100
Lead (mg/kg)	≤ 2	0.41
Arsenic (mg/kg)	$\leq 1,5$	0.12
Cadmium (mg/kg)	≤ 0.5	0.5
Mercury (mg/kg)	≤ 0.2	<0.2
Copper (mg/kg)	≤ 50	<50
pH	6.0–8.0	6.81

Microbiological Tests

Analysis Item	Specification	Result
Total Plate Count (CFU/g)	≤ 1000	10
Yeasts and Moulds (CFU/g)	≤ 100	<10
Bile-tolerant Gram negative bacteria (CFU/g)	≤ 100	<10
Staphylococcus aureus	Not detectable	Not detected
Escherichia coli	Not detectable	Not detected
Salmonella	Not detectable	Not detected

Particle Size Analysis

Mesh Size	Specification	Result
Through 80 mesh pass rate (%)	≥ 80	99,60
Through 60 mesh pass rate (%)	≥ 100	100

Base Bulk