



CERTIFICATE OF ANALYSIS

Product Name:	Copper Gluconate USP30
Batch Number:	20241106
Manufacture Date:	06.11.2024
Expiration Date:	05.11.2028

Physical & Chemical Characteristics

Analysis Item	Specification	Result
Identification A	To pass test	Passes test
Identification B	To pass test	Passes test
Assay	98.0–102.0%	99.8%
Sulfate	≤0.05%	0.03%
Chloride	≤0.07%	0.03%
Reducing substance	≤1.0%	0.7%
Copper content	13.72–14.28%	13.97%
Particle size	≥90% through 70 mesh	90%

Heavy Metals

Analysis Item	Specification	Result
Arsenic (As)	≤1 mg/kg	0.5 mg/kg
Lead (Pb)	≤3 mg/kg	<3 mg/kg
Mercury (Hg)	≤0.1 mg/kg	<0.1 mg/kg
Cadmium (Cd)	≤1 mg/kg	<1 mg/kg

Microbiological Tests

Analysis Item	Specification	Result
Total aerobic count	≤1000 CFU/g	10 CFU/g
Total molds-yeast	≤100 CFU/g	10 CFU/g
Salmonella	Absent/25g	Absent/25g
Enterobacteriaceae	Absent/1g	Absent/1g
Staphylococcus aureus	Absent/1g	Absent/1g
Listeria	Absent/1g	Absent/1g
E. coli	Absent/1g	Absent/1g