

Certificate of Analysis

Copper

•Made from food raw materials •Free of BSE,GMO,ETO,Allergen,Irradiation •BRC,GMP,FSSC22000,Kosher,Halal certified producer

Analysis Item	Specifications	Methods
Appearance	Blue powder	Visual
Identification	Concordant with the reference spectrum	FT-IR
Assay (on dried basis), w/%	98.0~102.0	USP
Copper(on dried basis),w/%	≥13.0	ICP-OES
Reducing sugar ,w/%	≤1.0	USP
Chloride ,w/%	≤0.07	USP
Sulfate ,w/%	≤0.05	USP
pH	3.0~5.0	USP
Bulk density , g/ml	≥0.55	Balance
Tapped density , g/ml	≥0.90	Balance
Particle size , w/%	90% passing 40 mesh	Sieving

• Heavy metals Standards

Analysis Item	Specification	Method
Heavy metals , mg/kg	≤10	USP
Pb , mg/kg	≤1	ICP-MS
As , mg/kg	≤1	ICP-MS
Cd , mg/kg	≤1	ICP-MS
Hg , mg/kg	≤0.1	ICP-MS

• Microbiological Standards

Analysis Item	Specification	Method
Total viable count , cfu/g	≤1000	USP or GB
Yeast and Mould , cfu/g	≤25	USP or GB
Coliform bacteria , /g	Negative	USP or GB
Escherichia Coli , /g	Negative	USP or GB
Salmonella , /10g	Negative	USP or GB
Staphylococcus aureus , /g	Negative	USP or GB
Enterobacter sakazakii , /g	Negative	USP or GB
Shigella Castellani , /g	Negative	USP or GB

Detection method can be implemented according to USP, EP, BP, FCC, AJI and GB reference Standards.