

CERTIFICATE OF ANALYSIS

Product Name	Manganese Amino Acid Chelate 20%		
Batch Number	20240525	Manufacture Date	20240525
Report Date	20240525	Expiry Date	20260524

Item	Specification	Result
Appearance	White to light pink powder	Visual
Manganese (on dried basis) ,w/%	≥20.0	ICP-OES
Loss on drying , w/%	≤9.0	USP
PH	3.0~5.0	USP
Bulk density , g/ml	≥0.50	Balance
Tapped density , g/ml	≥0.70	Balance
Particle size , w/%	90% passing 80 mesh	Sieving
Heavy metals Standards		
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
Microbiology Standards		
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

Storage: Store in tight, light-resistant containers, avoid exposure to direct sunlight, moisture and excessive heat.

Shelf Life: 24 months if store under the conditions above and stay in original packaging.

