



Hongda
Phytochemistry

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Headquarter: 1932 S Lynx Place, Ontario, CA 91761,US

Factory: No.2, Hongda Industrial District, Dacheng, Sanyuan, Xianyang, Shaanxi,China.

USA Warehouse: 1932 S. Lynx PL, Ontario, CA 91761,US

NJ Warehouse: 52 Butler Street, Unit A Eizabeth, NJ 07206

Certificate of Analysis

Sodium Copper Chlorophyllin

Batch No.	SCC210120	Manufacturing Date	01/20/2021
Batch Quantity	1000KG	Expiration Date	01/19/2023
Starting Source	<i>Mulberry Leaf</i>	Part Used	Leaf (100% Natural)
Appearance	Dark Green Powder	Country of Origin	China
Sterilization Method	Heat NON-IRR	CAS No.	28302-36-5

ITEMS	SPECIFICATION	RESULT	METHOD
Sodium Copper Chlorophyllin (As is)	97% – 103%	101.8%	USP <851>
Ratio(A405/A630)	3.0-3.9	3.4	USP <851>
Total Copper (As is)	4.0% – 7.0%	5.00%	USP <851>
Sodium (As is)	5% – 10%	6.00%	USP <851>

PHYSICAL CHARACTERISTICS

Particle Size	≥ 95% through 60 mesh	Conform	Analytical sieving USP <786>
Loss on Drying	≤ 7%	3.00%	USP <731>
Residue on Ignition	≤ 30%	24.50%	USP <281>
Absorbance	≥ 568	578.20	USP <851>
pH	9.5 – 10.7	10.55	USP <791>

CHEMICAL CHARACTERISTICS

Pesticide Residue	Meet the requirements	Conform	GC USP <561>
Heavy Metals(as Pb)	NMT 10µg/g	Conform	USP <231> Method II
Arsenic (As)	NMT 2.0µg/g	0.300µg/g	ICP-MS
Lead (Pb)	NMT 1.0µg/g	0.020µg/g	ICP-MS
Cadmium(Cd)	NMT 0.5µg/g	0.100µg/g	ICP-MS
Mercury(Hg)	NMT 0.5µg/g	0.100µg/g	ICP-MS
Chromium(Cr)	NMT 20µg/g	Conform	ICP-MS
Free Copper	NMT 0.25%	0.015%	ICP-MS

MICROBIOLOGICAL CHARACTERISTICS

Total Plate Count	NMT1,000cfu/g	Conform	USP<61>
Total Yeast & Mold	NMT100cfu/g	Conform	USP<61>
E.Coli	Not Detected in(g) 10	Not Detected	USP<61>
Salmonella	Not Detected in(g) 25	Not Detected	USP<61>
Staphylococcus	Not Detected in(g) 10	Not Detected	USP<61>

Packing and Storage Polyethylene bag with cardboard drum. 25kg net.
Store in tight, light-resistant containers, avoid exposure to direct sunlight, moisture and excessive heat.

Tested by: *Tracy Cui*

Date: 01/27/2021

Approved by: *Jack Jia*

Date: 01/27/2021