

Certificate of Analysis

Product Name: Chlorella Powder Broken Cell Wall Organic

Botanical Name: *Chlorella vulgaris*

Plant Part: Whole Cell

Carrier: None

Country of Origin: Taiwan

Characteristic	Test Method	Specification	Results
Appearance	Visual	Green Powder	Complies
Identification	TQ-177	Complies to Standard	Complies
Protein	AOAC 968.06/945.18	≥ 55%	Complies
Chlorophyll	TQ-138 (UV Spectrophotometry)	≥ 20 mg/g	Complies
Moisture	TQ-104	≤ 7.0%	4.68%
Ash	AOAC 923.03	≤ 8.0%	5.99%
Particle size	TQ-106 (AOAC 973.03)	100% pass through 60 mesh	Complies
Total Pheophorbide	UV-Vis	≤ 80mg/100g	27.9 mg/100g
Chlorella Growth Factor (C.G.F)	UV-Vis	≥ 1.8 unit	2.13 unit
Microbiology			
Aerobic Plate Count	Current USP/NF	≤ 50,000 cfu/g	690 cfu/g
<i>E. coli</i>	Current USP/NF	Negative/10g	Negative/10g
<i>Salmonella</i>	Current USP/NF	Negative/10g	Negative/10g
<i>Staphylococcus aureus</i>	Current USP/NF	Negative/10g	Negative/10g
<i>Listeria</i>	Current USP/NF	Negative/25g	Negative/25g
Yeast & Mold	Current USP/NF	≤ 100 cfu/g	≤ 100 cfu/g
Coliforms	Current USP/NF	≤ 10 cfu/g	≤ 10 cfu/g
Polycyclic Aromatic Hydrocarbons (PAH)			
Sum of Benz(a)anthracene, Chrysene, Benzo(a)pyrene, Benzo(b)fluoranthene	GS-MS	< 10 ppb	< 10 ppb
Heavy Metals			
Lead	ICP/MS USP<730>/AOAC 993.14	≤ 1.0 ppm	0.0544 ppm
Arsenic (Total)	ICP/MS USP<730>/AOAC 993.14	≤ 1.0 ppm	0.0512 ppm
Cadmium	ICP/MS USP<730>/AOAC 993.14	≤ 0.3 ppm	≤ 0.01 ppm
Mercury	ICP/MS USP<730>/AOAC 993.14	≤ 0.01 ppm	≤ 0.01 ppm