

Certificate of Analysis

Product Name: Chlorella Powder Organic – Broken Cell Wall

Botanical Name: *Chlorella vulgaris/Chlorella regularis*

Plant Part Used: Whole plant

Carrier: None

Country of Origin: China

Manufacture Date: Dec, 2011

Expiration Date: Dec, 2013

Characteristic	Test Method	Specification	Results
Appearance	Visual	Fine green powder	Fine green powder
Identification	FTIR	Complies to Standard	Complies
Protein	AOAC 968.06/945.18	≥ 50%	56.8%
Carotenoids	AOAC 955.10/ Paper chromatography	≥ 5mg/g	8.33 mg/g
Chlorophyll	UV Spectrophotometry	≥ 25mg/g	27.25 mg/g
Moisture	TQ-104 (104°C/2h)	≤ 7.0%	6.59%
Ash	AOAC 923.03	≤ 8.0%	6.52%
Particle size	AOAC 973.03 (TQ-106)	100% pass through 80 mesh	100% pass 80 mesh
Heavy Metals			
Lead	ICP/MS AOAC 993.14	≤ 2.0 ppm	0.462 ppm
Arsenic	ICP/MS AOAC 993.14	Informative (ppm)	2.187 ppm
Cadmium	ICP/MS AOAC 993.14	Informative (ppm)	0.032 ppm
Mercury	ICP/MS AOAC 993.14	Informative (ppm)	0.016 ppm
Microbiology			
Aerobic Plate Count	AOAC 966.23	≤ 200,000 cfu/g	66,000 cfu/g
<i>E. coli</i>	USP33, NF28, 2010	Negative/10g	Negative/10g
<i>Salmonella</i>	USP33, NF28, 2010	Negative/10g	Negative/10g
<i>Staphylococcus aureus</i>	USP33, NF28, 2010	Negative/10g	Negative/10g
Coliforms	AOAC 966.24	≤ 10 cfu/g	<3 cfu/g
Yeast/Mold	FDA-BAM 7 th ed.	≤ 500cfu/g	<10 cfu/g; <10 cfu/g

***Breaking cell method: Milling**

**** Broken cell rate tests by microscope method. Cell wall broken ≥ 75%**

***This is a natural product and there may be color and taste variations from lot to lot due to crop fluctuations from harvest to harvest.

Regulatory/Labeling: Organic Chlorella Powder

Storage: Store in a cool dry area. Do not freeze. Keep away from strong, direct light.

Shelf life: Two years when properly stored.

Quality Control: _____ Date: 05/01/12

Technical Director: _____ Date: 05/01/12