

Certificate of Analysis

General Information

Product Name:	Spirulina Extract (Phycocyanin)	Part Used:	Spirulina
Batch Number:	PC-CA250314	Production Date:	2023-03-15

Item	Specification	Result	Method
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Physical and Chemical Property

Appearance	Blue Fine Powder	Conforms	Visual
Smell	Characteristic	Conforms	Olfactory
Impurity	No Visible Impurity	Conforms	Visual
Particle Size	≥95% through 80 mesh	Conforms	Screening
Residue on Ignition	≤5g/100g	2.99g/100g	3g/550°C/4hrs
Loss on Drying	≤8g/100g	4.16g/100g	3g/105°C/2hrs
Total Protein Content	≥15%	18.54%	Kjeldahl method
Color Value	≥E6	6.93	UV(E1%618nm in distilled water)
Purity	≥1.5	1.61	UV(A620nm/A280nm)
pH	pH 5-7	Conforms	1g in distilled water/100ml
Ingredients	Phycocyanin (Spirulina extract)	20%-25%, Maltodextrin	75%-80%

Residue Analysis

Heavy Metals	≤10mg/kg	Conforms	
Lead (Pb)	≤2.00mg/kg	Conforms	ICP-MS
Arsenic (As)	≤2.00mg/kg	Conforms	ICP-MS
Cadmium (Cd)	≤1.00mg/kg	Conforms	ICP-MS
Mercury (Hg)	≤0.5mg/kg	Conforms	ICP-MS
PAH(BaP+CHR+BaA+BbFA)	≤40µg/k	Conforms	GC-MS(BaP+CHR+BaA+BbFA)
Benzo(a)pyrene	≤5µg/kg	Conforms	GC-MS

Microbiological Tests

Total Plate Count	≤10000cfu/g	500cfu/g	AOAC 990.12
Total Yeast & Mold	≤100cfu/g	10cfu/g	AOAC 997.02
Coli- group	≤10cfu/g	Conforms	AOAC 997.02
E.Coli.	Negative/10g	Conforms	AOAC 991.14
Salmonella	Negative/10g	Conforms	AOAC 998.09
S.aureus	Negative/10g	Conforms	AOAC 2003.07
Aflatoxins (B1+B2+G1+G2)	<20µg/kg	Conforms	HPLC (B1+B2+G1+G2)
Aflatoxin B1	<5µg/kg	Conforms	HPLC
Microcystins	<1µg/kg	Conforms	HPLC

Product Status

Conclusion:	Sample Qualified.
Allergen:	Allergen free, pesticide residues meet the USDA organic Standard.
Shelf Life:	24 months under the conditions below and in its original packaging.
Retest date:	Retest every 24 months under the conditions below and in its original packaging.
Storage:	Store in a cool, dry place away from moisture and light.