



# Bulk Naturals Wholesale LLC

[bulknaturalswholesale.com](http://bulknaturalswholesale.com)

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## BLUE SPIRULINA (PHYCOCYANIN) E18

### CERTIFICATE OF ANALYSIS

LOT: BN240910/BE

Manufacture Date: September 10, 2022

Expiration Date: September 10, 2024

QA Signature: Steven Konert

Specification	Parameter		Result
<b>Physical and Chemical Property</b>			
Appearance	Dark blue free flowing powder.	Conforms	Visual
Odor	Characteristic	Conforms	Olfactory
Particle Size	≥95% through 80 mesh	Conforms	Screening
Residue on Ignition	≤5g/100g	2.98g/100g	3g/550°C/4hrs
Loss on Drying	≤8g/100g	4.22g/100g	3g/105°C/2hrs
Total Protein Content	≥15%	18.51%	Kjeldahl method
Color Value	≥E18	18.57	UV(E1%618nm in distilled water)
Purity	≥1.5	1.63	UV(A620nm/A280nm)
pH	pH 5-7	Conforms	Ig in distilled water100ml
<b>Residue Analysis</b>			
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
<b>Microbiological Tests</b>			
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

Shelf life is guaranteed for two years from the date of production if the product is stored in the unopened original container between 15°C - 30°C, protected from light. Containers that have been opened should be tested at least yearly to ensure potency. Although Bulk Naturals Wholesale LLC. believes the above information to be accurate based on the information available to Bulk Naturals, it is the responsibility of the customer and user of the material to perform its own investigation and due diligence prior to use to verify that the product purchased from Bulk Naturals meets their quality requirements and is appropriate for the use to which the product is to be put. The information provided above shall be considered effective only for the lot with which the information is being provided. Use and purchase of this material is subject to Bulk Naturals Wholesale LLC. standard terms and conditions, which supersede any conflicting terms contained on Buyer's purchase order or any document or instrument supplied by Buyer.