



Bulk Naturals Wholesale LLC

bulknaturalswholesale.com

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BLUE SPIRULINA (PHYCOCYANIN) E18

CERTIFICATE OF ANALYSIS

LOT: BN240520/BE

Manufacture Date: May 20, 2022

Expiration Date: May 20, 2024

QA Signature: Steven Konert

| Specification | Parameter | Result | Test Method |
|------------------------------|--------------------------------|------------|---------------------------------|
| 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 | 2.99g/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 | ≥E18 | 18.62 | UV(E1%618nm in distilled water) |
| Purity | ≥1.5 | 1.61 | UV(A620nm/A280nm) |
| pH | pH 5-7 | Conforms | 1g in distilled water/100ml |
| Residue Analysis | | | |
| Heavy Metals | ≤10mg/kg | Conforms | ICP-MS |
| 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 |

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.