



Date:

Approved:

Revision No. 1C

References: See Methods

Form QUAL-F226

SPECIFICATIONS – Whole AFA Powder

Product Characteristics

AFA Powder	Whole Organism
Order	<i>Nostocales</i>
Family	<i>Nostocaceae</i>
Genus	<i>Aphanizomenon</i>
Species	<i>flos-aquae</i>

Physical Characteristics

Texture	Ground powder (2 - 70 mesh)
Color	Dark Green to Turquoise
Odor / Taste	Characteristic
Moisture	≤ 7%
Tapped Density	For Information Only
Phycocyanin	≥ 8 %
Phenethylamine	≥ 0.5%

Methods

Cerule QUAL-S169
Cerule QUAL-S170
Cerule QUAL-S153
Cerule QUAL-S169

Microbiology

Total Plate Count	Less than 100,000 cfu/g	Cerule QUAL-S101
Total Coliforms	Less than 1,000 cfu/g	Cerule QUAL-S101
Mold & Yeast (combined)	Less than 1,000 cfu/g	Cerule QUAL-S101
S. Aureus	Less than 100 cfu/g	Cerule QUAL-S101
E. Coli	Negative / 1 gram	Cerule QUAL-S101
Salmonella	Negative / 25 grams	FDA BAM

Contaminants

Microcystin Toxin	≤ 1 ppm	Cerule QUAL-S113
Arsenic Inorganic	Not more than 2 ppm	AOAC 993.14
Cadmium	Not more than 1 ppm	AOAC 993.14
Lead	Not more than 2 ppm	AOAC 993.14
Mercury	Not more than 0.5 ppm	AOAC 993.14
Organophosphorus Pesticides	Non Detect	
Organochloride Pesticides	Non Detect	EPA 8081B, 8141B, 8270D, 8321B
Pyrethroid Pesticides	Non Detect	

Regulatory Status & Safety

Certified Organic	The material is processed following the NOP guidelines for Organic Processors
Stability Considerations	Stable
Incompatibility with	None
Hazardous Decomposition Products	None known
Special Fire Fighting Procedures	None
Unusual Fire and Explosion Hazards	None
Hazardous Polymerization:	Will not occur
Spill / Leakage Procedures	If material is released or spilled: sweep up with broom and discard. Water disposal method: Dispose of in accordance with local, state and Federal regulations with regards to fruit, seed and vegetable handling.
Worker Skin Protection	Normal work wear



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Worker Eye Protection	Goggles are recommended in all manufacturing environments
Primary Route of Exposure	Ingestion
Effects of Over Exposure	None
Emergency First Aid Procedures	Flush eyes with large quantities of water, rinse, rinse other areas with soap and water. Drink large amounts of water.

Drying Method, Packaging, Storage, Shelf Life

Drying Method	DLT Hydro•Dri™
Packaging	1 and 10 kg poly lined, Mylar bag, vacuum packaged
Storage Conditions	Store in a cool, dry area not exceeding 70°F/21°C. Keep sealed in airtight containers when not in use.
Shelf Life	Retest 36 months from date of manufacture

Applications

Available Forms	Ground powder
Typical Dose	3 grams per day