

SPIRULINA



Physical Properties

Composition	100% Spirulina	100% ANC
Color	Dark Blue-Green	Dark Green
Odor and Taste	mild like seaweed	Strong Like Fresh Grass
Particle size	Granular or Mesh	Pellet or Crumble (granular) *Mesh available upon request

Proximate Analysis

Crude Protein	55-70%	52-55%	
Lipids (Fats)	06-08%	10.4 - 11.0%	
Minerals (Ash)	07-13%	14.00%	
Crude Fiber		2.70%	*Total Dietary Fiber: 13.5% (Insoluble + Soluble)
Carbohydrate (By Difference)	15-25%	8-12%	

Major Components

Protein	55-70%	52-55%
Amino Acids	65% Protein Basis	52% Protein Basis
_ Cysteine	0.65%	0.47%
Histidine	0.81%	1.25%
_ Leucine	5.66%	4.58%
Phenylalanine	2.92%	2.11%
Threonine	3.38%	2.55%
Valine	4.23%	2.96%
_ Arginine	4.49%	3.12%
_ Glutamic Acid	9.49%	5.46%
Proline	2.80%	2.34%
_ Methionine	1.50%	1.14%
_ Isoleucine	3.64%	2.55%
_ Lysine	3.06%	3.38%
Tyrosine	3.12%	2.34%
Tryptophan	0.98%	1.04%
_ Alanine	4.94%	3.02%
_ Aspartic Acid	6.37%	5.04%
Glycine	3.38%	2.65%
Serine	3.38%	2.34%
Loss on Hydrolysis	0.20%	2.86%

_ = Essential Amino Acids

Fatty Acids

Palmitic Acid		1.60%
Linoleic Acid (Omega 6)		1.60%
Linolenic Acid (Omega 3)	1.30%	4.00%
Other	4.70%	3.20%

Coloration Pigments

Chlorophyll (GREEN)	10,000 ppm	35,000 ppm
Phycocyanin (BLUE)	1,400,000 ppm	0 ppm
Carotenes	2500 ppm	525 ppm
Beta Carotene	1400 ppm	500 ppm
Other Carotenes	1100 ppm	25 ppm
Xanthophylls (YELLOW)	2200 ppm	1250 ppm
Lutein	0 ppm	800 ppm
Violaxanthin		60 ppm
Zeaxanthin	800 ppm	50 ppm
Neoxanthin		250 ppm
Myxoxanthophyll	900 ppm	
Cryptoxanthin	100 ppm	
Echinenone	100 ppm	
Other Xanthophylls	300 ppm	90 ppm

Vitamins

As Vitamin A	2,300,000 IU/KG	800,000 IU/KG
Beta Carotene	1400 ppm	500 ppm
Vitamin K	20 ppm	100 ppm
Riboflavin (B2)	40 ppm	5 ppm
Choline (B4)	0.00 ppm	1100 ppm
Vitamin E	100 ppm	500 ppm
Thiamin (B1)	35 ppm	3 ppm
Pyridoxine (B6)	8 ppm	90 ppm
Biotin (B8)	0.05 ppm	0.2 ppm
Vitamin C		
Vitamin D	1200 IU	
Inositol	6.4 mg	
Niacin	1.4 mg	
Folate (Folic Acid)	0.1 ppm	
Cyanocobalimine (B12)	2.0 ppm	
Panthenic Acid	1.0 ppm	

Minerals

Calcium	0.70%	4.10%
Potassium	1.40%	0.90%
Sodium	0.90%	0.03%
Cobalt		1 ppm
Iodine		0.3 ppm
Manganese	50 ppm	75 ppm
Zinc	30 ppm	18 ppm
Phosphorus	0.80%	0.90%
Magnesium	0.40%	0.17%
Chlorine		0.20%
Chloride		
Copper	12 ppm	11 ppm
Iron	1500 ppm	1100 ppm
Selenium	1.0 ppm	0.1 ppm
Germanium	6 ppm	
Boron		
Chromium	2.5 ppm	
Molybdenum		

OTHER

Moisture	3.0-7.0 %	9.00%
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