

Spirulina

platensis



Spirulina platensis

The microscopic vegetable *Spirulina platensis* can add a variety of nutritional benefits to your bird's diet. Scientists recently announced that the food *Spirulina* dramatically strengthens the avian immune system. This is of great interest to veterinarians and breeders of exotic birds. It explains why parrots suffering from opportunistic infections recover quickly when fed *Spirulina*. In scientific studies, *Spirulina* protected birds from infection with the antibiotic-resistant *Staphylococcus aureus* and *E.coli*. Scientists tested the theory that *Spirulina platensis* acts as a safe, edible broad-spectrum vaccine against bacteria or other disease-causing microbes. It is a natural green food, a safe alternative to antibiotics. This microscopic vegetable is an edible blue-green algae sold as a dry powder. It deepens feather colour and shine, stimulates breeding and enhances fertility. *Spirulina platensis* is very nutritious, It has 62% amino acid contents. It is world's richest source of Vitamin B12 and antioxidant beta-carotene (20 times that of carrots). Wild *Spirulina* sustains huge flocks of wild flamingo's in super-alkaline East African Lakes. Edible *Spirulina* is grown in controlled environments is much different from wild algae found in lakes. The *Spirulina* is grown by scientists and highly trained technicians at a special aquatic farm. All reports appearing in scientific literature document the medical benefits of *Spirulina*. They all show that *Spirulina* improves the immune system. Baby birds are protected from otherwise deadly germs with antibodies from the egg yolk. The egg yolk antibodies soon wear out as the young chick contacts germs in the outside world. This leaves the young chicks vulnerable to infections unless it is able to quickly build its own antibodies. Antibodies are created by a complex network of interactive white blood-cells known as macrophages, T-cells and B-cells. *Spirulina* accelerates the building of this cellular immune system, allowing it to increase antibody production and protect against invading germs. Many parrot breeders report that chronic problems with infections disappear within three weeks of use. In one case a breeder with an African grey reported the disappearance from a chronic *Pseudomonas* bacterial infection. It is extremely effective for treating radiation sickness. How does *Spirulina* build the immune system? *Spirulina* is very nutritious, containing all the essential amino acids. It is also very rich in anti-inflammatory GLA fatty acids, antioxidants and other phyto-chemicals. However, two unique natural substances supercharges the immune system. The first is the brilliant-blue protein Phycocyanin, found only in blue-green algae. Phycocyanin acts like erythropoietin (EPO). EPO is the hormone that regulates the bone marrow cells that produces white blood cells. Phycocyanin stimulates the immature or damaged immune system to grow or to repair itself when injured by infection, toxic chemicals or radiation. Scientists also found a polysaccharide (a complex sugar molecule) unique to *Spirulina*. *Spirulina* polysaccharide acts similarly to Phycocyanin. It is highly potent and activates the immune system. It improves the immune system's ability to detect and destroy foreign microbes or eliminate toxins. Also observed were increased antibody levels and normalisation of other cellular functions. Other Benefits *Spirulina platensis* is one of the most concentrated natural sources of nutrition known. Containing all the essential amino acids, it is also rich in chlorophyll, beta carotene and other natural phytochemicals. It is the only green food rich in GLA fatty acids. GLA stimulates growth in some animals and makes feathers soft yet more durable. In Conclusion What does this mean for the bird-breeder? Many breeders of exotic birds report that fertility and hatching improves. Birds have less sickness or recover more quickly. Fewer problems with feather plucking and better recovery from self-mutilation. Feather quality and coloration reach their peak. Veterinarians observe that infections quickly respond to treatment, and wound healing improves. *Spirulina* supercharges the avian immune system for better disease resistance and increased fertility.

Spirulina *platensis* analyses

General Analyses

Protein	55 - 70%
Carbohydrates	15 - 25%
Fat (lipiden)	06 - 08%
Minerals	07 - 13%
Moisture	03 - 07%
Crude fibres	08 - 10%

Composition

Exposure:	Fine powder
Color:	blue-green algae
Smell & taste:	Mild seaweeg taste
Density:	0,35 tot 0,60 kg. p/liter
Size :	60 mesh through

Vitamins per 10 gramme

Vitamin A	23000 IE
Vitamin D	1200 IE
Vitamin K	200 µg
Biotin	0,5 µg
Thiamin B ¹	0,35 mg
Niacin B ³	1,4 mg
Folic acid	1 µg

Beta caroten	14 mg.
Vitamin E	1 mg.
Pantothenic acid	10 µg
Inositol	6,4 mg.
Riboflavine B ²	0,4 mg
Pyridoxine B ⁶	0,1 µg
Colobalimine B ¹²	20 µg

Minerals per 10 gramme

Calcium	70 mg.
Phosphor	80 mg.
Zinc	0,3 mg
Seleen	10 µg
Mangan	0,5 mg
Sodium	90 mg

Iron	15 mg.
Magnesium	40 mg.
Germanium	60 µg
Copper	120 µg
Chrom	25 µg
Potassium	140 mg

Natural pigment phytonutrients per 10 gramme.

Phycocyanin blue	1400 mg.	Chlorophyl green	100 mg.	Carotenoiden Orange	37 mg.
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Natural carotenoiden per 10 gramme.

Carotenoids	25 mg.
Xanthophylles	22 mg.
Cryptoxanthin	1 mg.
Total carotenoids	47 mg.

Pigments

Beta caroten	21 mg.	other caroteniden	4 mg.
Myxoxanthophyll	9 mg.	Zeaxantin	8 mg.
Echinenone	1 mg.	other Xanthophyllen	3 mg.

Essential Amino acids per 10 gramme

Isoleucin	350 mg.	Leucin	540 mg.	Lysin	290 mg.
methionin	140 mg.	Phenylalanin	280 mg.	Threonin	320 mg.
Tryptophan	90 mg.	Valin	400 mg.		

Non essential amino acids per 10 gramme.

Alanin	470 mg.	Arginin	430 mg.	Aspartic acid	610 mg.
Cystin	60 mg.	Glutaminic acid	910 mg.	Glycin	320 mg.
Histidin	100 mg.	Prolin	270 mg.	Serin	320 mg.
Tyrosin	300 mg.				