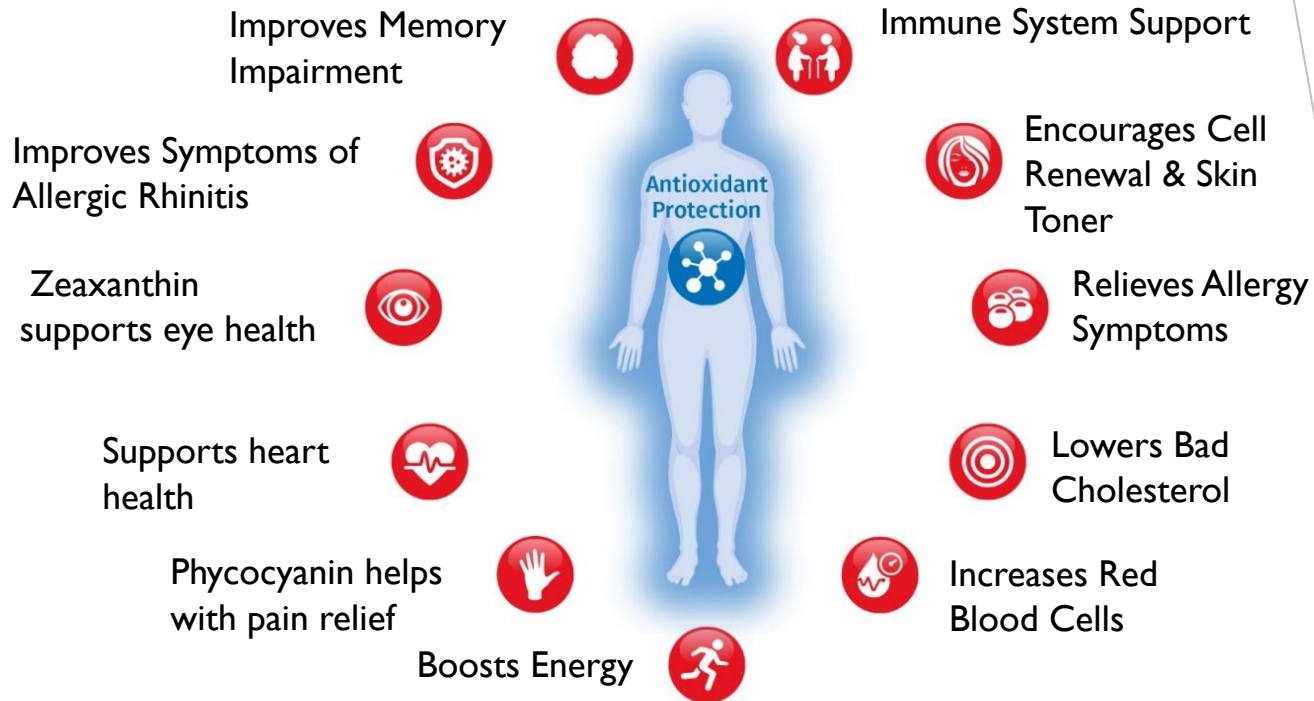


Gandalf Spirulina

100% Vegan



Manufactured by VieSun inc. Canada



Hawaiian Spirulina production ponds



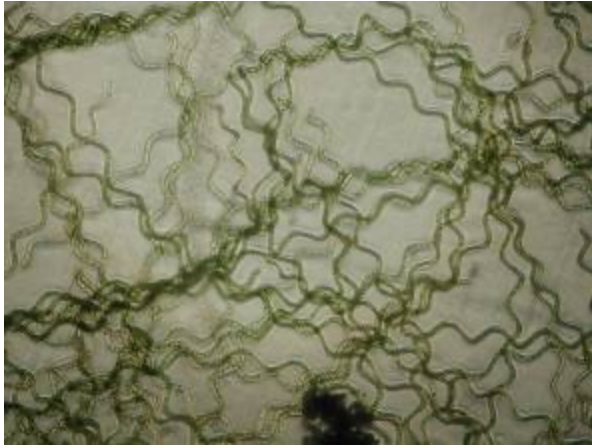
Organic Spirulina production ponds

Only Gandalf uses covered ponds for production of Organic Spirulina. We are purity obsessed and ensure our products are 100% Pure Organic and free of contamination.



Algae Cultivation & Spirulina Ponds

Gandalf Spirulina™



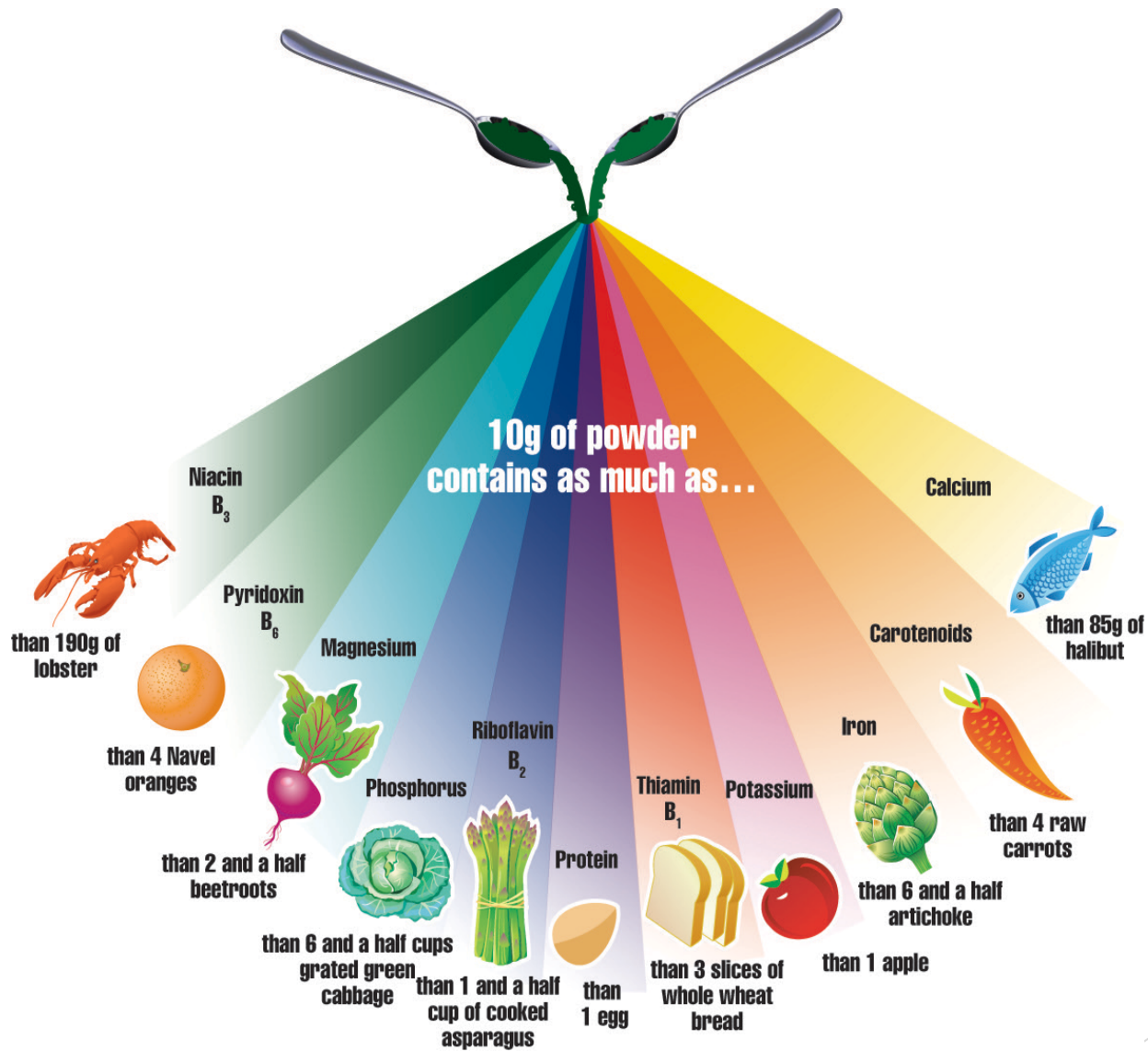


World's Healthiest Superfood

More nutrition gram-per-gram
than any other product
worldwide

One scoop of Gandalf Hawaiian Spirulina powder contains:

- Spirulina has 150% more calcium than whole milk;
Good for bones, osteoporosis, growth of children
- Spirulina has 1200% more iron than spinach;
Good for blood, prevents anemia
- Spirulina has 2000% more Beta Carotene than carrots;
Good for eyes, strong antioxidant, immunity
- Spirulina has 1900% more protein than tofu;
Building block for muscle tissue, necessary in diet
- The list goes on and on...



*10 g = 2 scoops of Hawaiian Spirulina

Early Spirulina Consumers: Aztecs & Mayans



Aztecs called it
Tecuitlal

Aztec Spirulina Harvest

Spirulina still grows in the wild in Chad



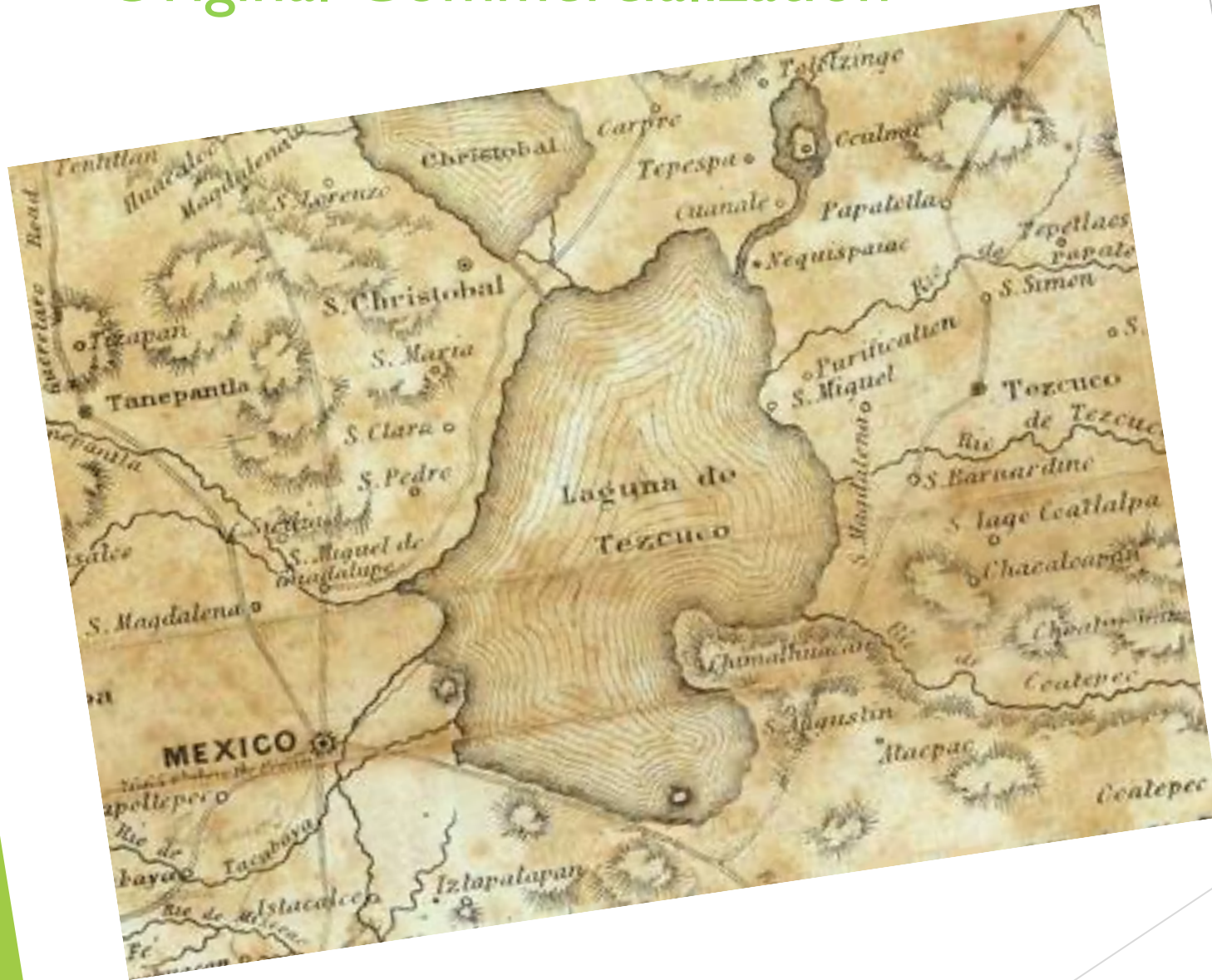
Harvest in Lake Chad



Spirulina Cakes for Sale

Spirulina grows naturally in a few alkaline lakes around the world

Original Commercialization



Lake Tezcuco, Mexico, mid 1970's

The Downfall of Lake Tezcucuo

- ▶ Horrible quality: Heavy metals, bacterial load.
- ▶ Over-run by sprawling Mexico City.
- ▶ Naturally harvested microalgae subject to contamination and agricultural runoff.
- ▶ Led to the emergence of Cyanotech and Earthrise.

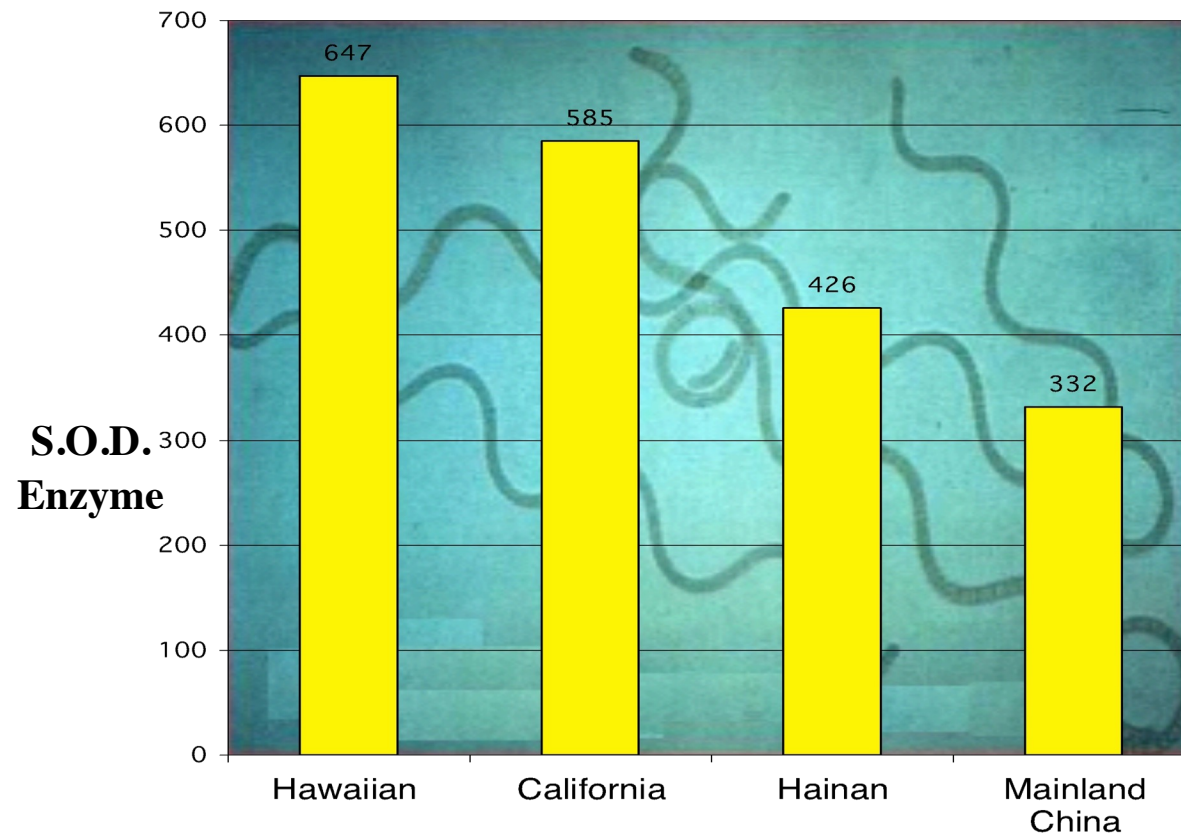
Quality Control department: 14 different quality tests for each lot of Spirulina



California Proposition #65

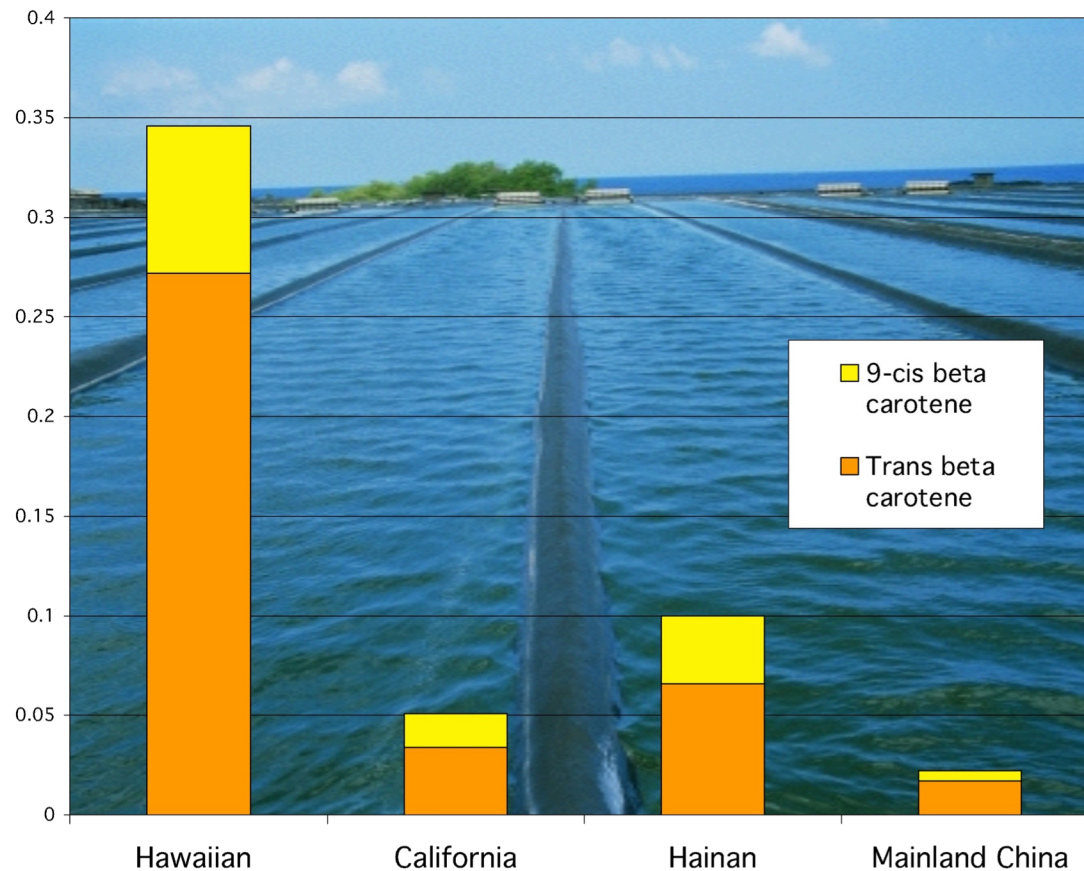
- ▶ One of the world's most rigorous laws for lead levels
- ▶ Daily serving must contain lead at less than 0.5×10^{-6} grams (to the minus 6th) grams
- ▶ Most Spirulina brands fail at a daily serving of one gram per day
- ▶ Gandalf Spirulina easily passes at daily serving of three grams per day

Exclusive to Hawaii, the Ocean Chill Drying™ process offers superior enzyme levels found in our Gandalf Hawaiian Spirulina



Enzyme levels are a measure of freshness and antioxidant strength

Hawaiian Spirulina far exceeds all others in carotenoids



Optimum Protection Packaging

Our pouches are made with superior quality materials and are composed of multiple layers including aluminum to offer protection from air and light



GANDALF Hawaiian Spirulina



SPIRULINE™
GANDALF
SPIRULINA

HAWAIIAN SPIRULINA SPIRULINE HAWAÏENNE

Superfood High in Protein
• Source of protein to help build and repair body tissues
• Reduces symptoms of allergic rhinitis
• Source of antioxidants

Super aliment riche en protéines
• Source de protéines pour aider à la reconstruction et à la réparation des tissus du corps
• Réduit les symptômes de la rhinite allergique
• Source d'antioxydants

300

Grams
Grammes

Powder
Poudre

OPTIMUM PROTECTION PACKAGING
EMBALLAGE POUR CONSERVATION OPTIMALE



Gluten-Free
Sans Gluten



Vegan
Végétalien



Non-GMO
Sans OGM

Packaged in Canada • Emballé au Canada

NPN 80095974

SPIRULINE™
GANDALF
SPIRULINA

HAWAIIAN SPIRULINA SPIRULINE HAWAÏENNE

Superfood High in Protein
• Source of protein to help build and repair body tissues
• Reduces symptoms of allergic rhinitis
• Source of antioxidants

Super aliment riche en protéines
• Source de protéines pour aider à la reconstruction et à la réparation des tissus du corps
• Réduit les symptômes de la rhinite allergique
• Source d'antioxydants

150

Grams
Grammes

Powder
Poudre

OPTIMUM PROTECTION PACKAGING
EMBALLAGE POUR CONSERVATION OPTIMALE



Gluten-Free
Sans Gluten



Vegan
Végétalien



Non-GMO
Sans OGM

Packaged in Canada • Emballé au Canada

NPN 80095974

SPIRULINE™
GANDALF
SPIRULINA

HAWAIIAN SPIRULINA SPIRULINE HAWAÏENNE

Superfood High in Protein
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Super aliment riche en protéines
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• Réduit les symptômes de la rhinite allergique
• Source d'antioxydants

150

Vegan Capsules
Capsules végétaliennes

400 mg

OPTIMUM PROTECTION PACKAGING
EMBALLAGE POUR CONSERVATION OPTIMALE



Gluten-Free
Sans Gluten



Vegan
Végétalien



Non-GMO
Sans OGM

Manufactured in Canada • Fabriqué au Canada

NPN 80095975

SPIRULINE™
GANDALF
SPIRULINA

HAWAIIAN SPIRULINA SPIRULINE HAWAÏENNE

Superfood High in Protein
• Source of protein to help build and repair body tissues
• Reduces symptoms of allergic rhinitis
• Source of antioxidants

Super aliment riche en protéines
• Source de protéines pour aider à la reconstruction et à la réparation des tissus du corps
• Réduit les symptômes de la rhinite allergique
• Source d'antioxydants

120

Tablets
Comprimés

1000 mg

OPTIMUM PROTECTION PACKAGING
EMBALLAGE POUR CONSERVATION OPTIMALE



Gluten-Free
Sans Gluten



Vegan
Végétalien



Non-GMO
Sans OGM

Manufactured in Canada • Fabriqué au Canada

NPN 80095935

SPIRULINE™
GANDALF
SPIRULINA

HAWAIIAN SPIRULINA SPIRULINE HAWAÏENNE

Superfood High in Protein
• Source of protein to help build and repair body tissues
• Reduces symptoms of allergic rhinitis
• Source of antioxidants

Super aliment riche en protéines
• Source de protéines pour aider à la reconstruction et à la réparation des tissus du corps
• Réduit les symptômes de la rhinite allergique
• Source d'antioxydants

60

Tablets
Comprimés

1000 mg

OPTIMUM PROTECTION PACKAGING
EMBALLAGE POUR CONSERVATION OPTIMALE



Gluten-Free
Sans Gluten



Vegan
Végétalien



Non-GMO
Sans OGM

Manufactured in Canada • Fabriqué au Canada

NPN 80095935

Organic Spirulina

SPIRULINE™
GANDALF
SPIRULINA

100% PURE
ORGANIC SPIRULINA
SPRULINE BIOLOGIQUE

Superfood High in Protein

- Source of protein to help build and repair body tissues
- Reduces symptoms of allergic rhinitis
- Source of antioxidants

Super aliment riche en protéines

- Source de protéines pour aider à la reconstruction et à la réparation des tissus du corps
- Réduit les symptômes de la rhinite allergique
- Source d'antioxydants

300

Grams
Grammes

Powder
Poudre

OPTIMUM PROTECTION PACKAGING
EMBALLAGE POUR CONSERVATION OPTIMALE



Gluten-Free
Sans Gluten



Vegan
Végétalien



Non-GMO
Sans OGM

Packaged in Canada Emballé au Canada

NPN 80067103

SPIRULINE™
GANDALF
SPIRULINA

PURE
ORGANIC SPIRULINA
SPRULINE BIOLOGIQUE

Superfood High in Protein

- Source of protein to help build and repair body tissues
- Reduces symptoms of allergic rhinitis
- Source of antioxidants

Super aliment riche en protéines

- Source de protéines pour aider à la reconstruction et à la réparation des tissus du corps
- Réduit les symptômes de la rhinite allergique
- Source d'antioxydants

200

Vegan Capsules
Capsules végétaliennes

400 mg

OPTIMUM PROTECTION PACKAGING
EMBALLAGE POUR CONSERVATION OPTIMALE



Gluten-Free
Sans Gluten



Vegan
Végétalien



Non-GMO
Sans OGM

Manufactured in Canada Fabriqué au Canada

NPN 80065507

SPIRULINE™
GANDALF
SPIRULINA

100% PURE
ORGANIC SPIRULINA
SPRULINE BIOLOGIQUE

Superfood High in Protein

- Source of protein to help build and repair body tissues
- Reduces symptoms of allergic rhinitis
- Source of antioxidants

Super aliment riche en protéines

- Source de protéines pour aider à la reconstruction et à la réparation des tissus du corps
- Réduit les symptômes de la rhinite allergique
- Source d'antioxydants

150

Grams
Grammes

Powder
Poudre

OPTIMUM PROTECTION PACKAGING
EMBALLAGE POUR CONSERVATION OPTIMALE



Gluten-Free
Sans Gluten



Vegan
Végétalien



Non-GMO
Sans OGM

Packaged in Canada Emballé au Canada

NPN 80067103

SPIRULINE™
GANDALF
SPIRULINA

PURE
ORGANIC SPIRULINA
SPRULINE BIOLOGIQUE

Superfood High in Protein

- Source of protein to help build and repair body tissues
- Reduces symptoms of allergic rhinitis
- Source of antioxidants

Super aliment riche en protéines

- Source de protéines pour aider à la reconstruction et à la réparation des tissus du corps
- Réduit les symptômes de la rhinite allergique
- Source d'antioxydants

150

Tablets
Comprimés

600 mg

OPTIMUM PROTECTION PACKAGING
EMBALLAGE POUR CONSERVATION OPTIMALE



Gluten-Free
Sans Gluten



Vegan
Végétalien



Non-GMO
Sans OGM

Manufactured in Canada Fabriqué au Canada

NPN 80077478

Gandalf Spirulina

Gold Standard

14-point Checklist

1. Lead levels less than 0.2 parts per million
2. Mercury levels less than 0.025 parts per million
3. Cadmium levels less than 0.2 parts per million
4. Beta carotene levels greater than 2000 mg per kg
5. Total carotenoid levels greater than 4200 mg per kg
6. Highest levels of enzymes including the powerful antioxidant SOD
7. Total Phycocyanin levels >11%; c-Phycocyanin >5%
8. Contains 94 trace minerals from 2000 ft. deep ocean water
9. High quality drinking water from the Hawaiian aquifer
10. Certified Pesticide and Herbicide free
11. Guaranteed GMO free and non-irradiated
12. ISO 9001:2000 Certified Quality Management
13. Produced using current Good Manufacturing Practices (GMP)
14. Generally Recognized as Safe (GRAS) by the US FDA for all food, beverage and supplement applications

Why do we need to supplement with Gandalf Spirulina?

Nutrition experts and the United States Government recommend that we eat 9 servings of different fruits and vegetables each day.

3 grams of Spirulina contain the same amount of phytonutrients as 5 servings of fruits and vegetables

Oxidation and Free-Radical Damage

- ▶ Causes damage to DNA and cell structures
- ▶ Caused by pollution, cigarette smoke, sunburn, radiation, exercise, even immune function
- ▶ Leads to aging and degenerative diseases
- ▶ Hawaiian Spirulina is exceptionally rich in antioxidants that neutralize free-radicals

Antioxidants as Preventive Medicine

Scientists believe that antioxidants may help prevent many different diseases:

- 1) Cancer
- 2) Heart Disease
- 3) Alzheimer's
- 4) Age-related Macular Degeneration (eye)
- 5) Stroke
- 6) Rheumatoid Arthritis
- 7) Premature aging of the skin
- 8) Many other age-related conditions

Gandalf Spirulina supplies a wave of Vital Antioxidants

(shown in actual colors)

Phycocyanin (antioxidant for liver and kidney health, not commonly found in foods)

Chlorophyll (detoxification, blood building)

Zeaxanthin (antioxidant for the eyes and brain)

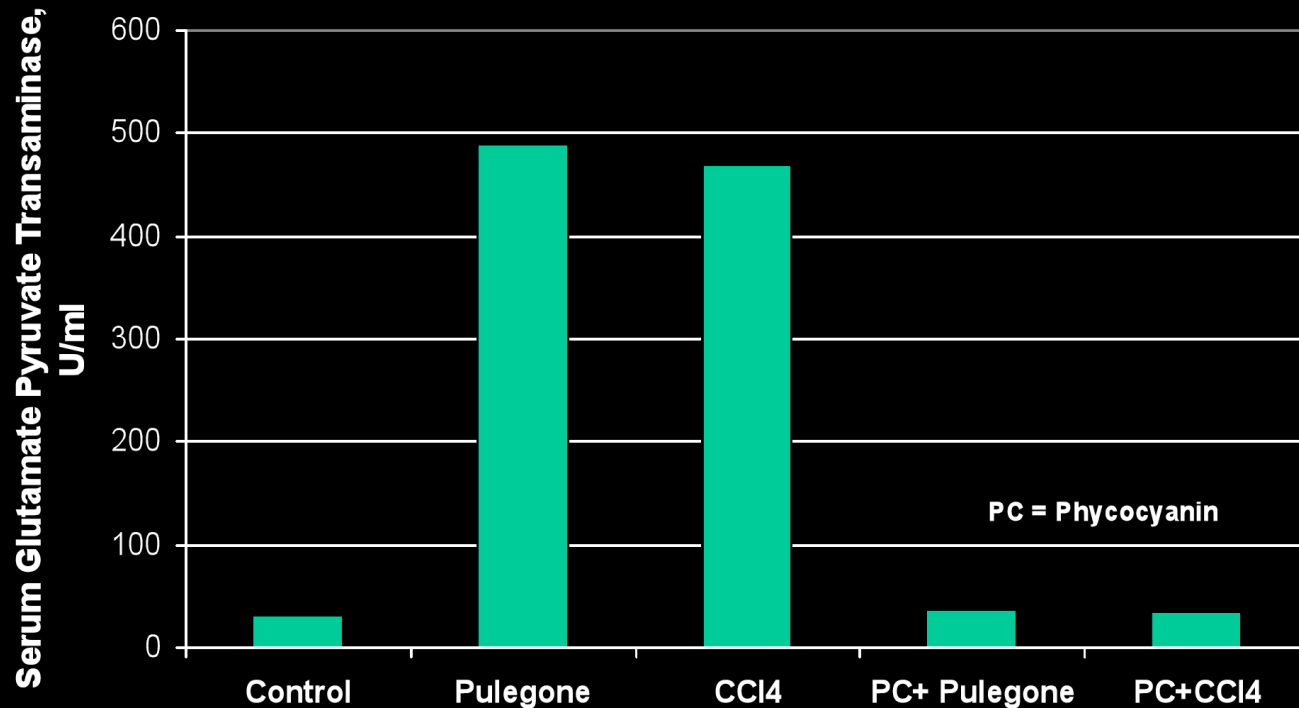
Beta carotene (antioxidant for skin, eyes, immune system, safe source of vitamin A)

C-Phycocyanin

(pigment from light harvesting phycobiliprotein family)

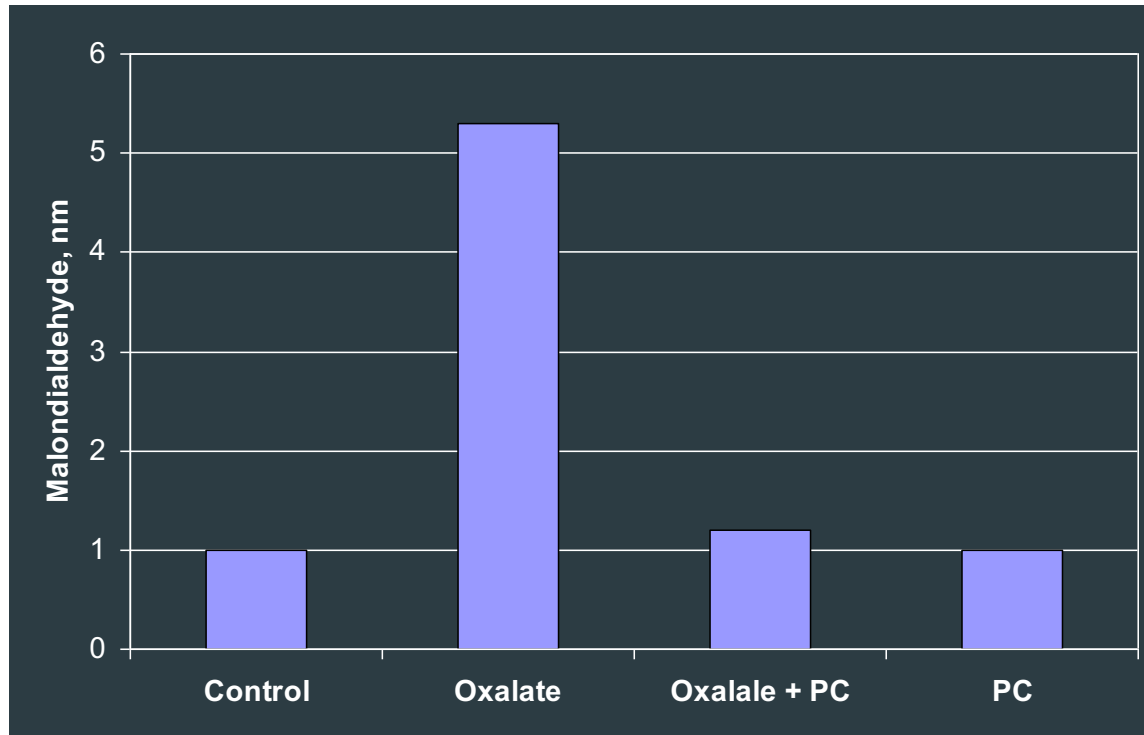
- ▶ Potent free radical scavenger, Pinero et al, 2001
- ▶ Hepatoprotective (Liver), Vadiraja et al, 1998;
Gorban et al, 2000
- ▶ Protection against renal damage (kidney), Farooq et al 2005
- ▶ Neuroprotective (brain), Romay et al 2003

Hepatoprotective Effect of Phycocyanin



Vadiraja, et al 1998

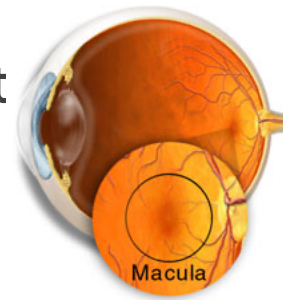
Inhibition of Induced Kidney Damage by Phycocyanin



Zeaxanthin protects our eyes as we age



-
- ▶ The leading cause of blindness in older adults is called macular degeneration (AMD).
 - ▶ Foods rich in Zeaxanthin help prevent AMD.



Just 6 tablets provide the amount of zeaxanthin in a bowl of spinach, one of the richest vegetable sources.

Calcium Spirulan: Antiviral

- ▶ Anti-viral, water soluble, sulfated, polysaccharide
- ▶ Inhibits penetration of virus into host cells, Hayashi et al 1996a
- ▶ Antiviral properties against herpes simplex I and HIV-I, Hayashi et al 1996
- ▶ Antiretroviral activity that may be of potential clinical interest, Ayehunie et al 1998

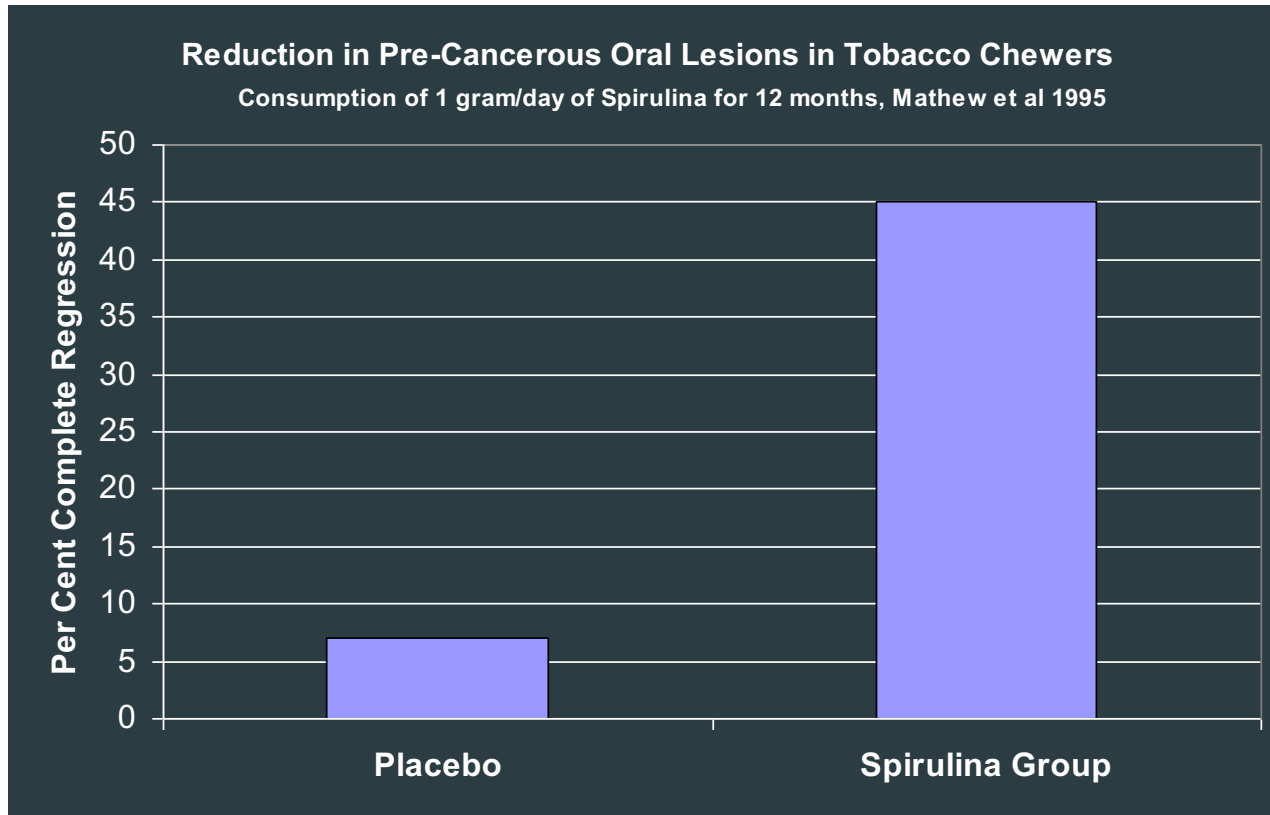
Antiviral Activity and Cytotoxicity of Spirulina Calcium Spirulan (Hayashi et al 1994)

Viruses	Host Cell	Cytotoxicity ID50, $\mu\text{g/ml}$	Antiviral Activity ED50, $\mu\text{g/ml}$	Therapeutic Factor ID50/ ED50
Herpes simplex I	HeLa	>5,000	3.9	>1280
Measles virus	Vero	>5,000	3.8	>1310
Mumps virus	Vero	>5,000	11	>450
Influenza Virus	MDC K	>5,000	87	>57

Melanin Polysaccharide

- ▶ Hot aqueous-alcohol extract, combination melanin and polysaccharide
- ▶ Potent immunostimulatory activity—100 to 1,000 times more active in vitro monocyte activation than currently used immunotherapy polysaccharides, Pugh et al, 2001
- ▶ Potentially useful botanical or pharmaceutical to improve immune function, Pasco et al, 2006

Chemo-Preventative



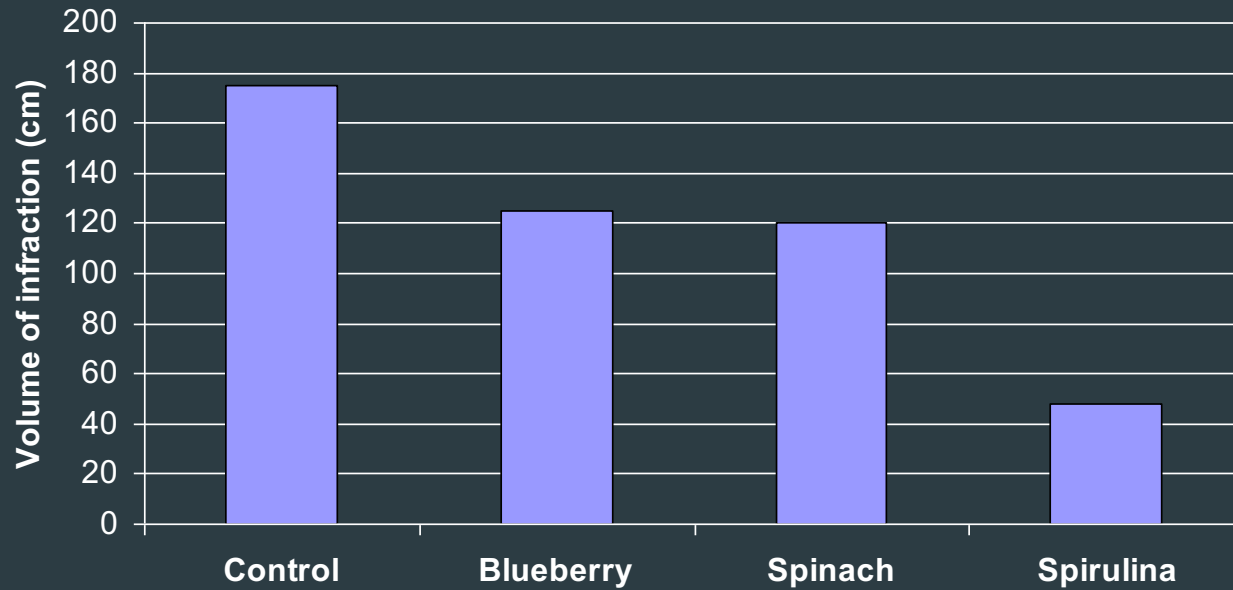
Relief for the Common Cold

- ▶ Protective effect on sufferers of allergic rhinitis
- ▶ Reduced cytokine Interleukin-4, Mao, et al, 2005

Brain Health

- ▶ Reduced age related brain degradation and reduced pro-inflammatory cytokines, (Gemma et al, 2002)
- ▶ Neuroprotective—reduced ischemic brain damage & improved post-stroke locomotor activity, (Wang et al 2005)

Ischemic Brain Damage (Wang et al 2005)



Blueberry and Spinach 2% diet supplementation

Spirulina 0.33% diet supplementation

Unique Potential Health Benefits of Spirulina

- ▶ Strong Synergistic Antioxidants
 - ▶ Cancer
 - ▶ Aging
- ▶ Hepatoprotective
- ▶ Renal Protective
- ▶ Anti-viral
- ▶ Immunostimulatory

Medical Research on Spirulina

Over 200 scientific studies have been done showing potential health benefits of Spirulina

All statements in this document are based on scientific research. Please consult your physician for personalized medical advice. Always seek the advice of a physician or other qualified healthcare provider with any questions regarding a medical condition. Never disregard or delay seeking professional medical advice or treatment because of something you have read on the Gandalf website and documentation.

Please contact us for further information.

5

Foods That Can Add Years to Your Life

New research suggests that including a combination of antioxidants on your plate yields a more powerful advantage than eating any one type of antioxidant food alone. Try to make the following food groups a part of your daily diet.



1. Spirulina (blue-green algae) Spirulina contains not only the antioxidant phyco-cyanin but also a bundle of protein, plus omega fatty acids. Once a mainstay food of the Aztecs, spirulina additionally works as an ibuprofenlike nonsteroidal anti-inflammatory. Add one teaspoon to one tablespoon of spirulina a day to smoothies or yogurt, or take it in capsule form. Caution: for some people, spirulina can be overstimulating (kind of like too much coffee), so experiment to find the right balance.

2. Cranberries, blueberries, blackberries These are jam-packed with antioxidants



called anthocyanins and polyphenols, which also have anti-inflammatory qualities. Try to work in a cup of berries a day.

3. Leafy greens (such as kale or spinach) They're full of lutein, another super-antioxidant; it's been proven to protect against macular degeneration of the optic nerves, thus protecting eyesight. Nutritionists suggest eating a cup of cooked kale or one to two cups of raw spinach each day.

4. Almonds and walnuts These nuts are a fantastic source of omega-6 fatty acids, as well as phytosterols (plant sterols) and vitamin E (tocopherols). People who



regularly consume nuts tend to have both a lowered risk of Parkinson's and lower cholesterol. Work in a quarter cup of these nuts a day whenever you can.

5. Flaxseed It contains fiber and omega-3 fatty acids that help to clear plaque and bad fats from the cardiovascular system. The fiber also protects against colon cancer. For best results, buy flaxseed ground (or grind it yourself) and throw one teaspoon to one tablespoon a day into everything from meat loaf to muffins.

Finally, don't forget to add these superfoods into a diet rich with lean meat, fish, and whole grains. —D.J.N.



Exclusively distributed by Flora
1-888-436-6697

QUESTIONS
1-844-426-3253

www.GandalfSpirulina.com