

SPIRULINE™ GANDALF SPIRULINA



Manufactured by Viesun Inc. in Canada



Gluten-free



Non-GMO



Vegan

OUR PRODUCTS

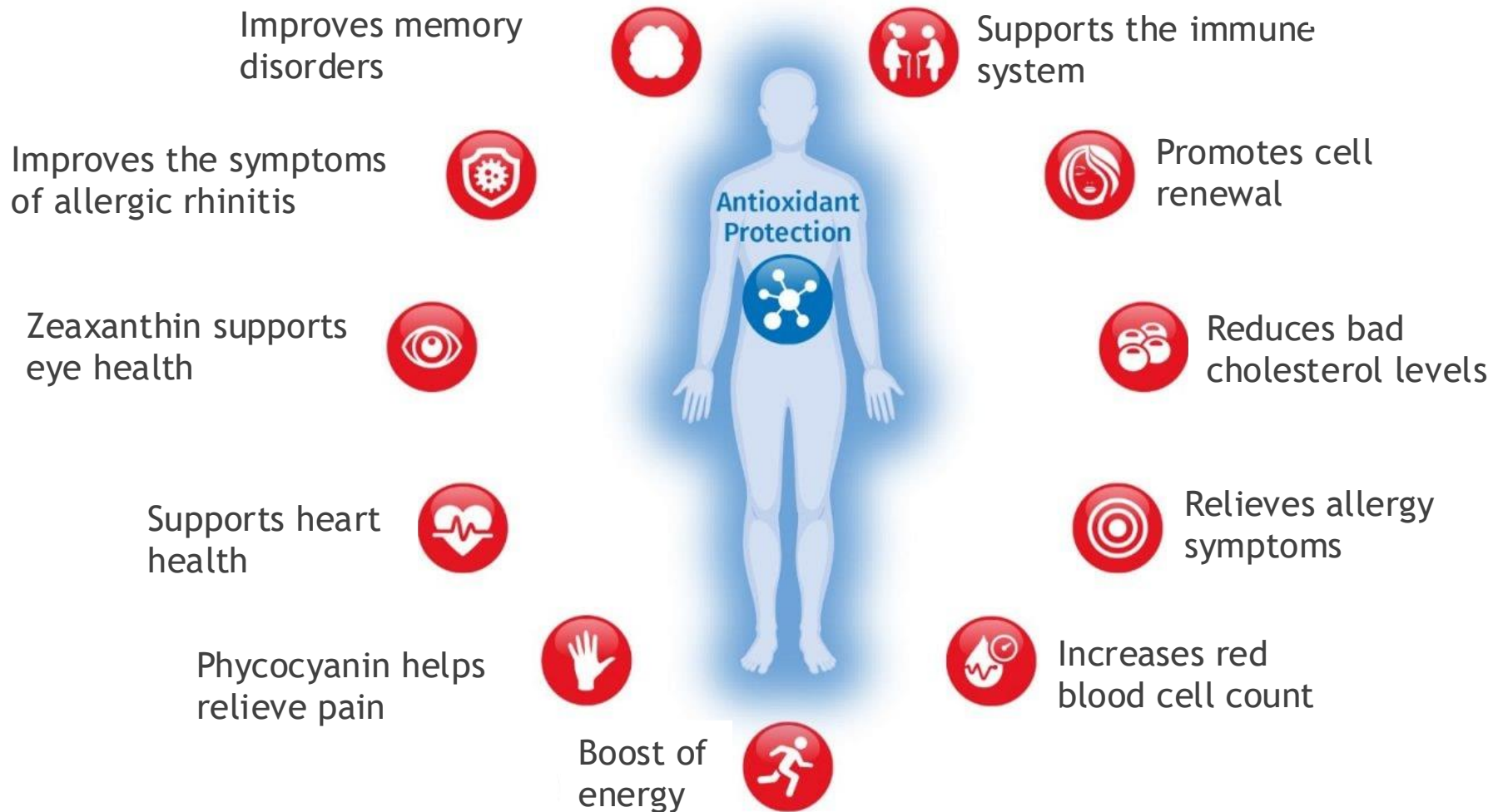
Hawaiian Spirulina	60	tablets	1000 mg
	120	tablets	1000 mg
	1000	tablets	1000 mg
	150	vegetarian capsules	400 mg
	150 g	powder	
	300 g	powder	
	1 kilo	powder	
Organic Spirulina	150	tablets	600 mg
	200	Vegan Caps	400 mg
	150 g	powder	
	300 g	powder	
California Spirulina	150	tablets	500 mg
	150	powder	
Organic Chlorella	150	tablets	600 mg
	150	powder	
Canadian Astaxanthin	60	Vegan Gel Caps	4 mg
Hawaiian Astaxanthin	30	Vegan Gel Caps	12 mg

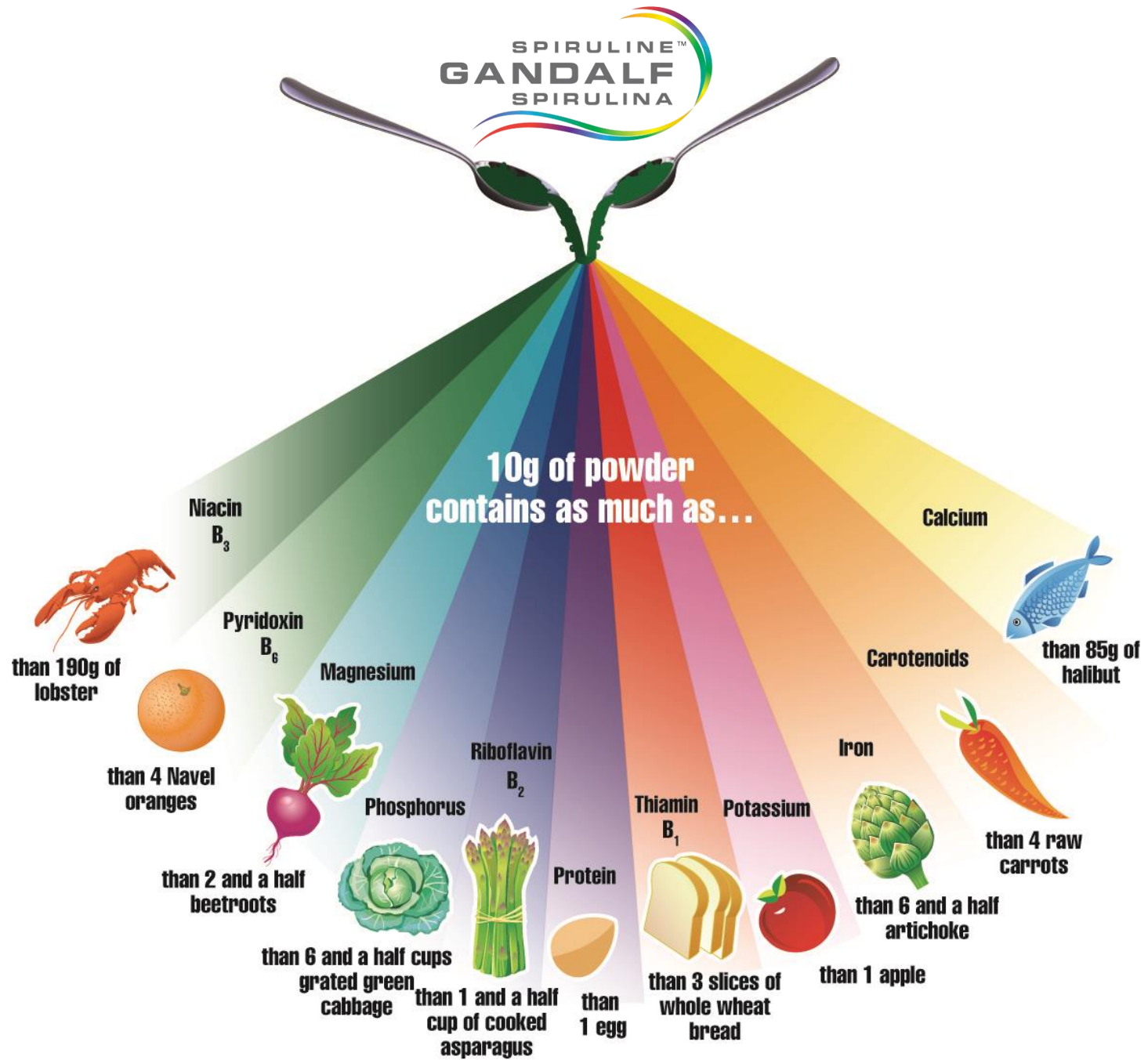
GANDALF SPIRULINA



Gandalf Spirulina

100 % Vegan





Gandalf Spirulina delivers a wave of vital antioxidants

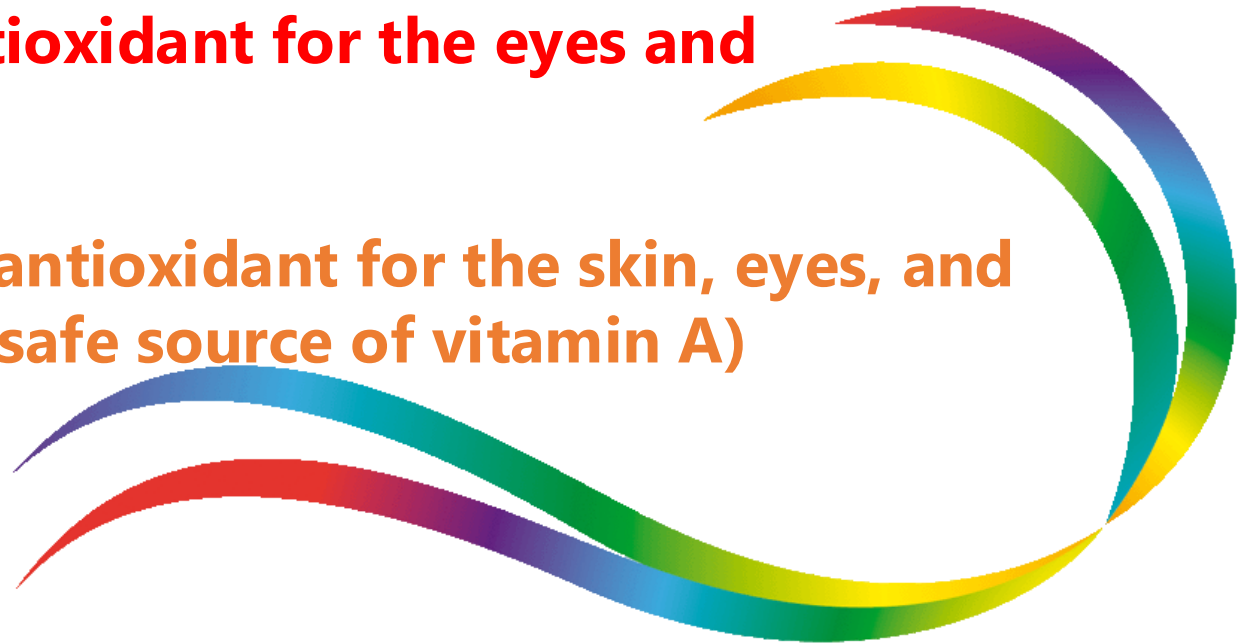
(as shown by its natural colors)

Phycocyanin (a beneficial antioxidant for liver and kidney health) is rarely found in food.

Chlorophyll (detoxifying properties and hematopoietic effect).

Zeaxanthin (an antioxidant for the eyes and brain).

Beta-carotene (an antioxidant for the skin, eyes, and immune system; a safe source of vitamin A)



13-Point Checklist

- 1- Lead levels below 0.2 parts per million
- 2- Mercury levels below 0.025 parts per million
- 3- Cadmium levels below 0.2 parts per million
- 4- Beta-carotene content above 2000 mg/kg (Hawaiian spirulina)
- 5- Carotenoid content above 4200 mg/kg (Hawaiian spirulina)
- 6- Highest levels of enzymes, including the powerful antioxidant SOD
- 7- Total phycocyanin content > 11%; C-phycocyanin > 5%
- 8- Contains 94 trace elements (Hawaiian spirulina)
- 9- High-quality drinking water from the Hawaiian aquifer (Hawaiian spirulina)
- 10- Certified pesticide- and herbicide-free
- 11- Guaranteed non-GMO and non-irradiated
- 12- ISO 9001:2000 certified quality management
- 13- Complies with Good Manufacturing Practice (GMP) standards

In our 3 Spirulinas, your natural multivitamin

- ✓ 60 to 70% complete plant-based proteins
- ✓ All essential amino acids
- ✓ Rich in vitamins: B1, B2, B3, B5, B6, B9, B12, A, E, K
- ✓ Powerful antioxidants: phycocyanin, chlorophyll, beta-carotene
- ✓ Natural source of iron, calcium, magnesium, potassium, phosphorus, zinc
- ✓ Essential fatty acids (including GLA – omega-6)
- ✓ Natural concentrate, rich in vitamins, minerals, and natural phytonutrients
- ✓ Enzymes, polysaccharides, and nucleic acids
- ✓ A true multivitamin... 100% natural!

Hawaiian Spirulina

- Grown in Hawaii
- It undergoes photosynthesis outdoors in open ponds, using solar energy.
- It is very rich in beta-carotene thanks to high sunlight exposure.
- Although fully organic, it is not certified due to its cultivation method involving the use of Chilean nitrate—a natural essential mineral not recognized by current standards. No certification currently applies to microalgae aquaculture.
- It is grown in water filtered through lava rock, containing 10% seawater, and dried under a low-oxygen atmosphere (−1%).
- It contains 94 natural trace elements.
- 1000 mg tablets
- 4 g of Hawaiian spirulina = 10 g of some Chinese spirulinas, which are less nutrient-rich and less concentrated.

Available in powder, tablets, and capsules

One spoonful of Gandalf Hawaiian Spirulina powder contains:

- **150% more calcium than whole milk;**
good for bones, osteoporosis, and children's growth
- **1200% more iron than spinach;**
good for blood, prevents anemia
- **2000% more beta-carotene than carrots;**
good for eyes, powerful antioxidant, boosts immunity
- **1900 % more protein than tofu;**
building block of muscle tissue, essential for nutrition

The list goes on and on...

California Spirulina

- Grown in southeastern California, in a region far from major cities and industrial areas
- Smaller tablets (500 mg) than other formats — easier to swallow
- Compliant with California's Proposition 65, one of the strictest contaminant regulations
- Same cultivation process as Hawaiian spirulina
- Although fully organic, it is not certified due to the use of Chilean nitrate — a natural essential mineral not recognized by current standards
- No certification currently applies to microalgae aquaculture
- 4 g of California spirulina = 10 g of some Chinese spirulinas, which are less nutrient-rich and less concentrated

Available in powder and tablets

California Proposition 65

- One of the strictest laws in the world regarding lead levels
- Daily servings must contain less than 0.5×10^{-6} grams of lead
- Most spirulina brands do not meet the recommended daily serving of one gram per day
- **Gandalf Spirulina easily meets the recommended daily serving of three grams per day**

Organic Spirulina

- Grown in Mongolia
- We have an **exclusive partnership with the only spirulina grower in Mongolia**
- Covered ponds use water drawn from **500 meters deep in the desert**
- Our systems allow the algae to grow, thrive, and provide consumers with nutrient-rich superfoods
- Lower in beta-carotene, making it ideal for use in recipes like smoothies, salads, cold soups, etc.

The main differences between Spirulina

Criteria	Hawaiian Spirulina	California Spirulina	Organic Spirulina
Origin	Hawaii	Southeastern California	Mongolia (desert)
Cultivation Method	Open ponds, full sun	Open ponds	Covered ponds, groundwater drawn from 500 m deep in the desert
Beta-Carotene Content	Very high	High	Moderate
Organic Status	Yes, but not certified (Chilean nitrate	Yes, but not certified (Chilean nitrate	Yes (certified organic)
Recommended Use	Vitality, performance	Immunity, digestive comfort	Recipes (smoothies, salads)
Specific Features	Contains 94 natural trace elements	Smaller tablets (500 mg)	Free from pesticides, GMOs, and additives
Summary of Benefits	The most nutrient-rich, ideal for vitality	Strict compliance (Prop 65), easy to swallow	Certified, perfect for healthy cooking

Each spirulina has its own unique qualities. Choose based on your needs!

Why we don't mix our spirulina with chlorophyll:

- Less phycocyanin:

Adding chlorophyll masks the natural color of spirulina and may indicate a reduced content of **phycocyanin**, the blue pigment with powerful antioxidant effects.

- Risk of product dilution:

Mixing with chlorophyll can **dilute the spirulina** and decrease its concentration of key nutrients. The product is **no longer 100% pure spirulina**. This is an **alteration of the natural product**.

- Misleading visual effect:

An intense green color may seem « purer », but it does not necessarily reflect a quality spirulina. It is often a **marketing argument**, not a guarantee of nutritional richness. This mixture is sometimes used to enhance the **appearance of a lower-quality spirulina batch** by giving it a nicer visual aspect.

- Less effective for certain targeted benefits:

For inflammation, immunity, or recovery, **phycocyanin is more powerful** than chlorophyll. **Phycocyanin**, naturally present in spirulina, is responsible for many benefits (immunity, inflammation).

→ By weakening this concentration, **part of the therapeutic benefit is lost**. Too much chlorophyll can mask its presence or reduce its amount.

Why we don't mix our spirulina with chlorella:

- Loss of transparency

→ The blend prevents knowing **the exact nutrient content** of each algae. It's no longer clear how much spirulina or chlorella is actually consumed.

- Less control over benefits

→ Spirulina and chlorella have **different effects** (energy vs detox). Mixing them **blurs their targeted effectiveness**.

- Less precision in treatments

→ A detox cure based on chlorella or a vitality cure based on spirulina **have different goals**. The mix makes these less effective.

- Quality hard to guarantee

→ Some brands use this blend to **mask lower-quality spirulina or chlorella**.

- Increased digestive risks

→ Chlorella is harder to digest for some people. The mix **can cause discomfort**, even if spirulina alone is well tolerated.

- Possible nutritional imbalance

→ The proportions are not always optimal: sometimes too much chlorella, sometimes not enough spirulina... which **unbalances the nutritional profile**.

- Less authenticity

→ With us, every superfood deserves its place. We choose to **respect the integrity of each algae**, for maximum effectiveness and complete trust.

GANDALF ORGANIC CHLORELLA



Gandalf Raw Organic Chlorella

100 % Vegan

Helps eliminate heavy metals and toxins

Zeaxanthin helps support eye health

Antioxidant: rich in chlorophyll and vitamins. Source of vitamin B12: ideal for vegans

Helps relieve digestive issues

Prevents and helps fight bacterial infections (such as pharyngitis, colds, etc.)



Strengthens and stimulates the immune system



Helps promote cell renewal



Helps support oral health



Stabilizes blood sugar levels and helps support heart health



Stimulates intestinal transit and rebalances the microbiota (gut flora)



Antioxidant Protection



Gandalf Chlorella

- Grown in the Mongolian desert
- The water used comes from an underground source located in the desert, drawn from a depth of 500 meters.
- Cultivated in covered ponds. This method completely eliminates acidity from rainwater and atmospheric contaminants.
- Rich in proteins, vitamins, and minerals.
- Excellent source of vitamin B12.
- Tested for heavy metals, microorganisms, toxins, broken cell membrane levels, and nutritional content.
- Better taste, smell, and color.
- **Broken cell membrane:**
 - The outer wall of chlorella limits nutrient availability.
 - Gandalf's process breaks the chlorella's cell wall to access minerals and vitamins, making it easier for the body to absorb its nutrients.
 - Sent for analysis at a specialized institute in Arizona to ensure purity and quality. Its particularly concentrated nutritional composition makes it significantly more potent than most chlorellas available on the market.

Comparative table of Spirulina and Chlorella

Nutritional Factors	Chlorella	Spirulina	Units
Protein	55 à 70	55 à 70	g/100g
Calcium	180 à 220	400 to 600	mg/100g
Iron	155 à 175	50 à 100	mg/100g
Magnesium	260 à 300	300 à 400	mg/100g
Chlorophyll	3 650 à 4 750	+/- 1 000	mg/100g
SOD (superoxide dismutases)	-	400 000 à 500 000	UI ^[A] /100g
GLA (gamma linolenic acid)	400 à 700	+/- 1 000	mg/100g
Phycocyanin	-	12 000 à 14 000	mg/100g
Fibres	8 000 à 9 000	7 000 à 9 000	mg/100g
Carotenoids	100 à 120	300 à 400	mg/100g
Vitamin B3 (niacin)	30 à 35	14 à 17,5	mg/100g
Vitamin B6 (pyridoxine)	1,6 à 3	0,8 à 4	mg/100g
Vitamin B9 (folic acid)	2 à 2,8	10	mcg/100g
Vitamin C (ascorbic acid)	45 à 55	-	mg/100g

Chlorella has an exceptional concentration of chlorophyll and lutein. (Lutein > 150mg/100g, Chlorophyll > 3,000mg/100g).

GANDALF ASTAXANTHIN

The only Canadian
supplier of
100% vegan
Astaxanthin.



Gandalf Astaxanthin

100 % Vegan

Cognition: helps preserve
brain function



Biological aging

Immune function



Well-being and beauty

Eye health: supports
vision and reduces
eye fatigue



Cholesterol

Heart health and
reduces inflammation



Powerful antioxidant:
protects cells against
oxidative stress

Skin health and protection
against UV damage



Blood pressure

Athletic
performance



Antioxidant
Protection



Hawaiian Astaxanthin

- Grown under the intense Hawaiian sun, in optimal conditions to maximize carotenoid production
- Provides a **high dose** of 12 mg per capsule, a higher dose for intensive antioxidant support
- This strong concentration is ideal for those seeking **powerful antioxidant support**
- Exceptional purity, as the water used for cultivation is filtered through molten lava
- One of the most powerful antioxidants found in nature, capable of protecting our body's cells against attacks from free radicals
- Never becomes a pro-oxidant

Canadian Astaxanthin

- Produced and purified in Canada from natural sources, this version provides 4 mg per capsule
- Intended for **daily, gradual, and balanced** use
- Powerful natural carotenoid pigment, less concentrated, making it ideal for regular support
- One of the most powerful antioxidants found in nature, capable of protecting our body's cells against free radical attacks
- Never becomes a pro-oxidant

Comparison of Astaxanthin's powerful singlet oxygen scavenging ability

- Astaxanthin is **800 times more powerful** than CoQ10
- Astaxanthin is **550 times more powerful** than green tea catechins
- Astaxanthin is **75 times more powerful** than alpha-lipoic acid
- Astaxanthin is **800 times more powerful** than vitamin C!

OPTIMAL PROTECTIVE PACKAGING

Spirulina is very fragile: it deteriorates quickly when exposed to light and air.

That's why we use **packaging specially designed to protect it**.

Our **multi-layer** bags, including an aluminum layer, effectively block light and prevent air from entering. This ensures your spirulina **stays fresh and nutrient-rich for longer**.

In contrast, plastic jars often allow light and air to pass through, which can degrade its quality. Additionally, some plastics may release unwanted substances.



All information contained in this document is based on scientific research. Please consult your healthcare professional for personalized medical condition. Never disregard or delay seeking medical advice or treatment because of something you have read on Gandalf's website or documentation.

For any additional information, feel free to contact us.



TECHNICAL QUESTIONS

contact@gandalfspirulina.com
1-844-426-3253

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Please visit our website for more information on scientific research. The English version of this document is also available there.

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