Euglena P.3

Naturally All-In-One Superfood that Brings Out Your Beauty From Within

Provides 60 Essential Nutrients

- Euglena is a species of green microalgae that grows in fresh and marine water.
- It has chlorophyll which allows it to carry out photosynthesis to make nutrients.
- It is the only species of microalgae whose cells have a cell membrane instead of a cell wall which allows full digestion (up to 93.1%) and absorption of nutrients.¹
- It is naturally rich in carotenoids and all essential vitamins and minerals.
- It also has the essential, anti-inflammatory omega fatty acids and a complete profile of amino acids, making it perfect supplement for vegans or vegetarians.
- Euglena P-3 is added with a probiotic Bifidobacterium breve B-3, making it a product that provides 60 essential nutrients. This probiotic works hand-in-hand with Euglena.

ChlorophYll - The Toxin ReMover

- Aging cells gradually lose their ability to repair DNA from constant assaults like free radicals, environmental toxins, radiation.²
- The magic of green chlorophyll or chlorophyllin helps to protect our DNA from the numerous threats.³
- Chlorophyllin is the bioactive compound found in chlorophyll that protects against cell-damaging free radicals.⁴
- It also binds and forms irreversible complexes with toxins, especially the environmental toxins and those produced through food preparation methods, allowing the body to safely eliminate them.⁴
- Chlorophyllin activates enzymes in the liver that help to detoxify and remove harmful substances from the body.⁴
- Chlorophyllin has been shown to help prevent genetic damage caused by radiation.⁴
 Naturally all

Paramylon - The Secret Beauty Weapon

- Paramylon is a bioactive ingredient found only in Euglena.
- It is a dietary fiber belonging to the Beta-glucan class of compound with a sponge-like molecular structure that helps to remove toxins and undesirable substances like fats, cholesterol, purines, etc. from our body, and to moderate insulin response. ^{5,6}
- Studies have shown that consumption of Euglena may prevent the formation of wrinkles and decline of skin firmness caused by UV rays.⁷
- It has shown to inhibit the development of atopic-dermatitis-like symptoms too. ⁷
- Euglena helps to promote regular bowel movement.
- Together with the anti-inflammatory omega-3s fatty acids in Euglena, paramylon downregulates inflammations in the body, which makes Euglena a suitable solution to manage acne caused by inflammation.⁷

The Beauty Bifidobacterium breve B-3 in Euglena P-3

Euglena has been found to work synergistically with probiotics – the good bacteria in the intestine. Thus, a probiotic Bifidobacterium breve B-3 has been added in Euglena P-3.

Besides improving immune system and easing inflammation through its possible effects in modulating intestinal mucosal immunity that leads to preservation of skin homeostasis, ^{8,9} this strain of probiotics may help to enhance skin health by:

- Protecting collagen & laminin (structural components of the skin) 10
- Preventing skin wrinkling & barrier dysfunction 10
- Modulating chronic UV-induced inflammatory responses and reduction in skin hydration ¹⁰

Naturally all-in-one Euglena P-3 is produced with Euglena cultivated in the famous pristine and natural environment of Ishigaki island in Okinawa, Japan. With Euglena P-3, you will be able to obtain 60 essential nutrients needed for optimal health.

References

1. Determining the nutritional value of Euglena gracilis proteins through human digestion experiments and experiments on rearing mice. Japan Society for Bioscience, Biotechnology, and Agrochemistry edition 51, 85:483-488 (1977).

2. Carcinogenesis. 2005 Jul;26(7):1247-55. Epub 2005 Mar 17.

3. Nutr Cancer. 2003;46(2):212-21.

4. Siddavaram Nagini, Fabrizio Palitti, Adayapalam T. Natarajan (2015). Chemopreventive potential of chlorophyllin: a review of the mechanisms of action and molecular targets. Journal of Nutrition and Capper, 67:203-211

and Cancer. 67:203-211.

5. Japan Patent No. JBS4305785 "Purine absorption inhibitor and blood uric acid level reducing agent". https://patents.google.com/patent/JP2010132585A/en (accessed on 20th December 2017)

6. R. Shimada et al. (2016). Oral administration of green algae, Euglena gracilis, inhibits hyperglycemia in OLETF rats, a model of spontaneous type 2 diabetes. Food and Function. 7:4655-

7. A. Sugiyama et al. (2010). Oral administration of paramylon, a β -1,3-d-glucan isolated from Euglena gracilis z inhibits development of atopic dermatitis-like skin lesions in nc/nga mice. Journal of Veterinary Medical Science 72(6):755-763.

 $8.\,Bermudez-Brito\,M,\,Mu\~noz-Quezada\,S,\,Gomez-Llorente\,C,\,et\,al.\,(2013).\,Cell-free\,culture\,supernatant\,of\,Bifidobacterium\,breve\,CNCM\,I-4035\,decreases\,pro-inflammatory\,cytokines\,in\,human\,dendritic\,cells\,challenged\,with\,Salmonella\,typhi\,through\,TLR\,activation.\,PLOS\,ONE\,8,\,e59370.$

9. Hoarau C, Lagaraine C, Martin L, et al. (2006). Supernatant of Bifidobacterium breve induces dendrition cell maturation, activation, and survival through a Toll-like receptor 2 pathway. J Allergy Clin Immunol 117, 696–702.

10. Satoh, et al. (2015). Effect of Bifidobacterium breve B-3 on skin photoaging induced by chronic UV irradiation in mice. Benef Microbes In Press.





