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Astaxanthin is an increasingly popular carotenoid which belongs to the subclass of xanthophyll. It occurs naturally in certain algae and runs the color gamut from red to pink. Some astaxanthin can also be found in specific seafood types. In fact, it is what causes the reddish color in lobster, salmon, fish eggs, trout, crabs, and other seafood.

Astaxanthin: 19 Known Medical Benefits, Uses, Side Effects ...

Astaxanthin is present in most red-coloured aquatic organisms. The content varies from species to species, but also from individual to individual as it is highly dependent on diet and living conditions. Astaxanthin, and other chemically related astacarotenoids, has also been found in a number of lichen species of the arctic zone.

Astaxanthin - Wikipedia

Astaxanthin, a carotenoid found mainly in seafood, has potential clinical applications due to its antioxidant activity. In this study, we evaluated the effect of dietary astaxanthin derived from *Haematococcus pluvialis* on skin photoaging in UVA-irradiated hairless mice by assessing various parameters of photoaging. After chronic ultraviolet A (UVA) exposure, a significant increase in ...

Preventive effect of dietary astaxanthin on UVA-induced

...

Synthetic astaxanthin is significantly inferior to algal-based astaxanthin as an antioxidant and may not be suitable as a human nutraceutical supplement. Article (PDF Available) in *Nutrafoods* 12 ...

(PDF) Synthetic astaxanthin is significantly inferior to ...

Astaxanthin may also have a future in the treatment of joint pain, including conditions like rheumatoid arthritis, which affects

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nearly one in every five Americans, and carpal tunnel syndrome ...

7 Health Claims About Astaxanthin

Rheumatoid arthritis. Carpal tunnel syndrome. Laboratory research has found that an extract from algae that makes astaxanthin slowed the growth of breast and skin cancer cells. Astaxanthin might ...

Astaxanthin - WebMD

Astaxanthin is taken by mouth for treating Alzheimer's disease, Parkinson's disease, stroke, high cholesterol, liver diseases, age-related macular degeneration (age-related vision loss), and...

Astaxanthin: Uses, Side Effects, Interactions, Dosage, and ...

Astaxanthin production by *Phaffia rhodozyma* and *Haematococcus pluvialis*: A comparative study Article (PDF Available) in *Applied Microbiology and Biotechnology* 75(4):783-91 · July 2007 with 1,836 ...

(PDF) Astaxanthin production by *Phaffia rhodozyma* and ...

Astaxanthin is a substance that protects the skin against UV-induced photo-oxidation and it is used for anti-tumor therapies and prevention - treatment of neural damage interrelated with age-related macular degeneration, Alzheimer and Parkinson diseases,.

Commercial astaxanthin production derived by green alga ...

Numerous studies support the use of astaxanthin as a potent antioxidant that may be beneficial in decreasing the risks of certain chronic diseases. It may also reduce oxidative stress in the nervous system, reducing the risk of neurodegenerative diseases. Additionally, astaxanthin has well-documented anti-inflammatory and immune-stimulating effects.

Astaxanthin: A Review of the Literature | Natural Medicine ...

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A study published in 2009 in the journal Future Cardiology outlined the case for considering astaxanthin as a supplement to reduce the risk of heart disease (4). The paper lays out a number of pieces of evidence. First, it points to numerous studies showing a link between inflammation and heart disease.

Ranking the best astaxanthin supplements of 2020

Natural astaxanthin's distinct advantage in comparison to other antioxidants, is its ability to span the entire lipid bilayer of the cell membrane, thus providing superior protection from the inside out. Natural astaxanthin has a strong ability to balance and strengthen the immune system.

Astaxanthin: Nature's most powerful antioxidant

In another study, when astaxanthin was compared to the three other carotenoids (beta-carotene, capsanthin, and bixin), astaxanthin was found to be the most active in preventing the reproduction of human leukemic cells. 8

New Research on Astaxanthin and Cancer - - Life Extension

Astaxanthin is a carotenoid, like beta-carotene from carrots and lycopene from tomatoes. The carotenoids in these fruits and vegetables are healthy antioxidants too, but astaxanthin is the strongest antioxidant of them all! Astaxanthin can neutralize oxygen free radicals 4.9 times better than beta-carotene and 1.6x better than lycopene.

Astaxanthin: Nature's most powerful antioxidant

In particular, astaxanthin content in dry shrimp waste ranges from 6.8 to 35 $\mu\text{g}\cdot\text{g}^{-1}$ (Lee & Row, 2016). In this case, recovery of astaxanthin from shrimp waste not only minimizes the pollution potential of the waste, but also improves the economy of the shrimp processing industry.

Enhanced extraction of astaxanthin using aqueous biphasic ...

Astaxanthin is a xanthophyll carotenoid, which exhibits many important biological activities including a high degree of antioxidant capacity (AOC) and antibacterial activity, hence has

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a significant applicability in food, pharmaceutical and cosmetic industries.

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