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Astaxanthin is an

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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.



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### **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 astaxanthinoids, has also been found in a

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number of lichen  
species of the arctic  
zone.  
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**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*

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pluvialis on skin  
photoaging in UVA-  
irradiated hairless mice  
vs Natural 6494  
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

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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

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arthritis, which affects 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 ...

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**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,**

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## **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

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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**



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## **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

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immune-stimulating  
effects.  
Of Synthetic  
Vs Natural 6494

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

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

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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,

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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,

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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

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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,

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### A Comparative

#### Case Of Synthetic

#### Vs Natural 5494

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 ...**

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Astaxanthin is a xanthophyll carotenoid, which exhibits many important biological activities including a high degree of antioxidant capacity (AOC) and antibacterial activity, hence has a significant applicability in food, pharmaceutical and cosmetic industries.



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