



Astaxanthin Oil



Manufacturing Dome

Astamin Pro (6 mg) Item # : AP001 \$40.00
30 soft gel/ bottle For One Month

Directions: As a dietary supplement, **take 1 softgel per day** with meal.

Ingredients: Astaxanthin 6mg, Olive Oil, Gelatin, Glycerin, Purified Water.

Astamin Professional

The benefits of Astamin® astaxanthin :

- Antioxidant
- Increased muscle endurance and reduced muscle damage**
- Reduced eye fatigue and improved visual acuity**
- Wrinkle reduction by internal supplementation**
- Immunomodulation**
- Reduction of hyper pigmentation
- Cytokine regulation**
- Gastric Health**

Is It Safe?

Astaxanthin has been found through safety studies to be very safe. However, if you are pregnant, nursing, taking any medication or have a medical condition, please contact your healthcare practitioner before taking any dietary supplement. This product is not intended for use by children.

This product has not been evaluated by the Food and Drug Administration.

This product is not intended to diagnose, treat, cure or prevent any disease.

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What is Astamin® astaxanthin®

Natural astaxanthin from the microalgae, *haematococcus pluvialis*, is a natural carotenoid found in abundance from arctic marine environments to common fresh water rock pools throughout the world. Astaxanthin is what gives the pink and red color to salmon, shrimp and lobster. However, animals depend on their diet to obtain astaxanthin and other carotenoids since they cannot produce carotenoids themselves. The most abundant source of astaxanthin in nature is *haematococcus pluvialis*, which will accumulate astaxanthin in lipid vesicles during periods of nutrient deficiency and environmental stresses. Because *haematococcus* often grows in places that are exposed to intense sunlight during its dormant phase astaxanthin functions to protect the cell nucleus against free radicals generated by UV radiation that would otherwise cause damage to its DNA and peroxidise energy reservoirs.

Antioxidant - Cell Membrane protection

Astaxanthin has been found to be a very potent lipid soluble antioxidant through in vitro and ex vivo studies. It has been shown to be 1000 times and 550 times more effective than vitamin E.

(α -tocopherol) concerning lipid peroxidation and singlet oxygen quenching respectively. Astaxanthin is also superior to many other antioxidants because of the unique role it may play in protecting the cell membrane because of its unique chemical structure and orientation within the living cell¹. Figure 1 shows astaxanthin's unique ability to span through the double layer cell membrane. For example, β -carotene resides inside the bilipid membrane and vitamin C resides outside the bilipid membrane only. Whereas, the astaxanthin molecule is exposed both in and outside of the cell giving overall better protection. In addition, it can also function as a bridge by transporting trapped free radicals to the aqueous (polar) regions of the cell, thus making them available to water soluble antioxidants.

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