

Astaxanthin Data Base

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Astaxanthin

Production Technology, applications, Market, Products, Raw materials, Equipments

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Project Information at a glance

- ASTAXANTHIN, a member of the carotenoid family, is a dark-red pigment which is the main carotenoid found in the marine world of algae and aquatic animals.
- ASTAXANTHIN is present in many types of seafood, including salmon, trout, red sea bream, shrimp and lobster, as well as in birds such as flamingo and quail. This pigment is commercially produced from the microalga *Haematococcus pluvialis*, the richest known natural source for ASTAXANTHIN.
- The chemical difference between natural and synthetic ASTAXANTHIN lies in the stereochemical orientation of the molecules in space (those different molecules are called “enantiomers”).
- A demand for natural ASTAXANTHIN is now emerging in the fast-growing, multi-billion dollar nutraceutical market; in particular, increasing evidence suggests that ASTAXANTHIN was shown to be a much more

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Astaxanthin is a carotenoid pigment that occurs in trout, microalgae, yeast, and shrimp, among other sea creatures. It's most commonly found in Pacific salmon and is what gives the fish its pinkish color. An antioxidant, astaxanthin is said to have many health benefits.



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Astaxanthin occurs naturally in certain algae and causes the pink or red color in salmon, trout, lobster, shrimp, and other seafood. Astaxanthin is taken by mouth for treating Alzheimer's disease, Parkinson's disease, stroke, high cholesterol, age-related macular degeneration, age-related vision loss, and preventing cancer.



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The natural sources of astaxanthin are algae, yeast, salmon, trout, krill, shrimp and crayfish. The commercial astaxanthin is mainly from *Phaffia* yeast, *Haematococcus* and through chemical synthesis.

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Astaxanthin belongs to the family of carotenoid compounds known as xanthophylls, which includes lutein and zeaxanthin. Astaxanthin is produced by algae, which is consumed by crustaceans such as krill, which in turn are eaten by wild salmon. Wild salmon varies in astaxanthin



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MATERIAL SAFETY DATA SHEET

PRODUCT: SUPREME ASTA OIL 5.0%

- 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY**
 - 1.1 Product name:** Supreme Asta Oil 5.0 %.
 - 1.2 Chemical characterization:** Astaxanthin (natural carotenoid)
Source: Microalgae Haematococcus pluvialis.
 - 1.3 Product Identification:** CO₂-extracted natural astaxanthin from Haematococcus pluvialis dry biomass.
 - 1.4 Product use:** It is a dark red viscous oleoresin, for use in Nutraceutical, Cosmetics and Food products.
 - 1.5 Dangerous ingredients:** none.
 - 1.6 Manufacturer:** Atacama Bio Natural Products S.A

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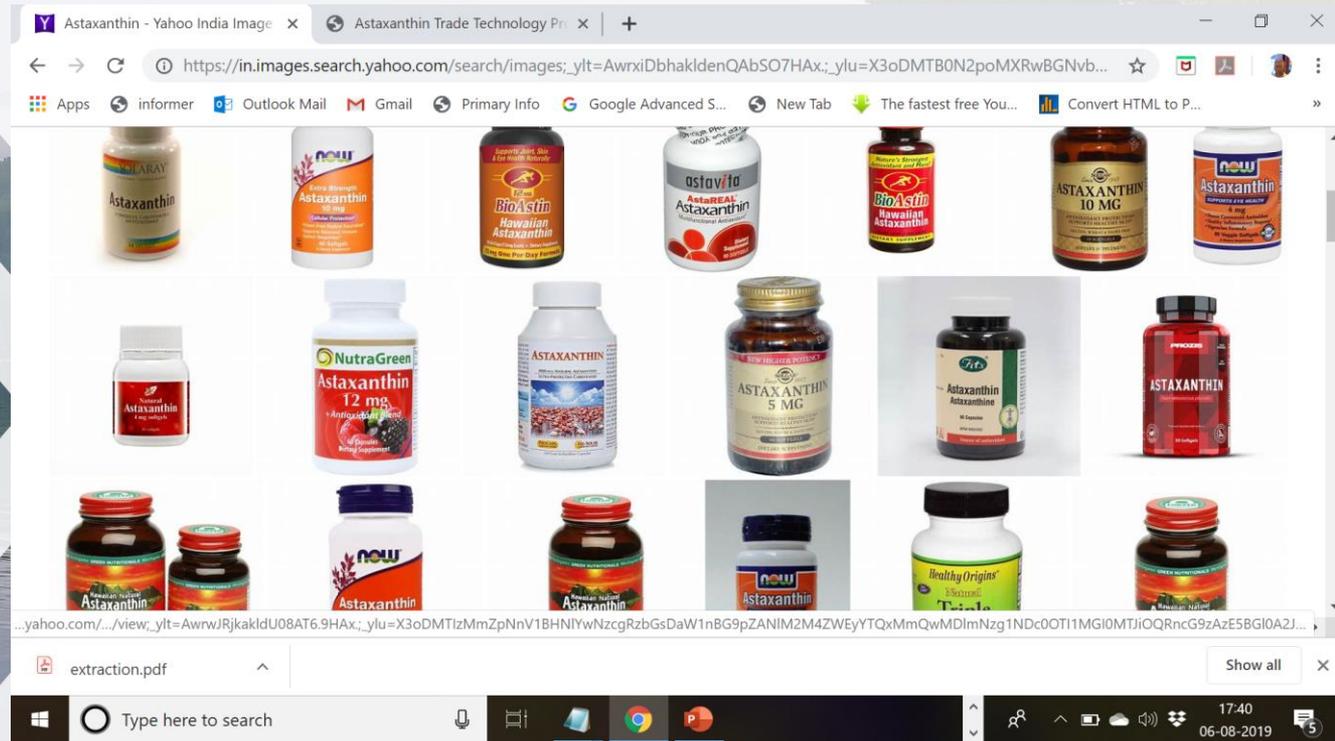
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