cosmetics Solabia group

AstaPure® Skin

[Antioxidant]

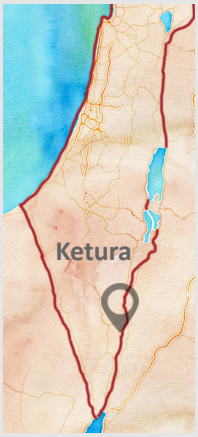
Natural astaxanthin, the ultimate antioxidant

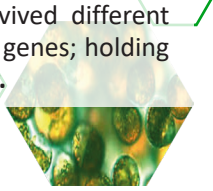
A global anti-aging action

- Protection of the skin vital functions
- Protection against oxidative stress

ALGATECH - THE STORY OF LIFE

Founded 20 years ago in the Arava Desert, between the Dead Sea and the Red Sea, in Israel, Algatech is part of Solabia Group since 2019. Focused on **natural microalgae sources**, our experts have been working relentlessly to unlock the potential of single-cell life forms that hold the key to mankind's well-being.





Microalgae are among Earth's first lifeforms: they've survived different environments. The story of their survival is recorded in their genes; holding the **secrets for complex biochemicals of unmatched potency.**

MICROALGAE CULTIVATION

Algatech ***exclusive biotechnology*** and **know-how** enable the cultivation of microalgae thanks to a **patented eco-friendly closed system exposed to natural sunlight**. It is the world's largest Photo Bio-Reactor facility with more than 600 km (310 miles) of glass tubes, eliminating exposure to chemical, physical or microbiological contamination.

These unique capabilities and continuous searches have allowed Algatech to become **leaders in the production and supply of one of the world's most powerful antioxidants sourced from the microalgae *Haematococcus pluvialis*, a premium natural astaxanthin.**

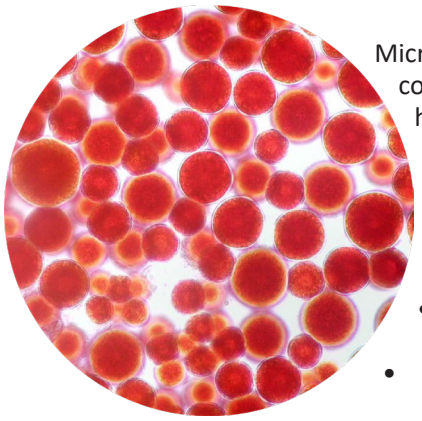
CREATING LIFE IN THE DESERT

The location of Algatech's facility is the main advantage for the cultivation of microalgae besides innovative technologies: stable climate conditions in the region, intense year-round sunlight, clean air and land, free from industrial contaminants and pollutant. Algatech takes advantage of **ecological benefits by utilizing solar power and recycling water in palm date fields to make desert a prosperous land perfectly suited to the culture of micro-algae.**

Moreover, **microalgae play a crucial role in Earth's ecology, capturing carbon from the atmosphere and providing oxygen and nutrients that feed the entire ecosystem.**

Algatech continually collaborate with academic institutions and key global corporations, to promote the knowledge and the use of new species of microalgae.

ASTAXANTHIN - THE KING OF CAROTENOID



Microalgae are 1.5 billion years old, they survived to extreme life conditions such as dryness, high salt concentration and extreme sunlight. They developed **several strategies** to subsist through eras in hostile environments like the **production of astaxanthin**.

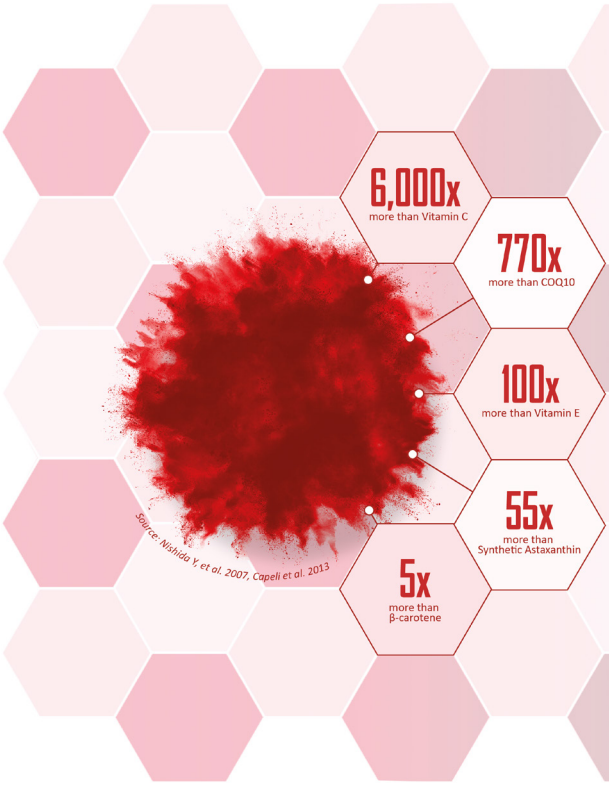
Astaxanthin is the most powerful antioxidant in nature; it is synthesized by a micro-alga called *Haematococcus pluvialis*:

- **Green microalga**, **from freshwater** and belonging to the *Haematococcaceae* family
- Ability to produce a red pigment **under stressful conditions to keep their DNA healthy: astaxanthin**
- The **largest** source of natural Astaxanthin

POWERFUL ANTIOXIDANT

Over 500 studies demonstrate astaxanthin's health benefits

- Supports **skin** health and beauty
- Helps maintain healthy **cellular membranes** after exposure to UV light
- Helps maintain stable **antioxidant balance**



PROPERTIES

- **Antioxidant**
- **Anti-inflammatory**
- **Photoprotection**

Astaxanthin **revitalizes the skin** and **protects it from premature aging**.

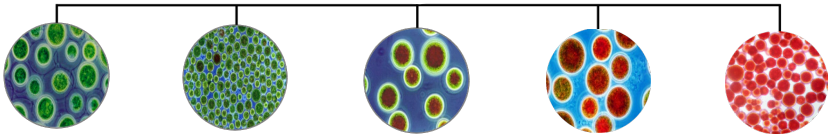
The properties of astaxanthin are such that **NASA** is testing it for **protection from radiation exposure** and could be used to supplement the diet of astronauts!

PIONEERING ECO-FRIENDLY PRODUCTION

Cultivation stages of *Haematococcus pluvialis* microalgae

Algae in the "Green Stage"

Algae in the "Red Stage"



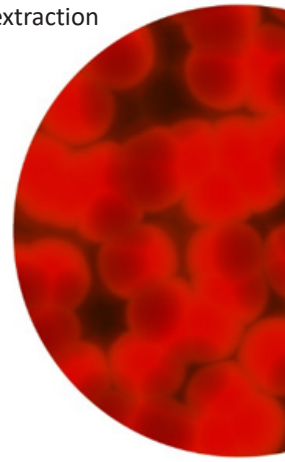
A **two stage cultivation condition** is necessary for the astaxanthin production:

- **"green stage"** where microalgae grow under optimal conditions
- **"red stage"** under natural stressed conditions where microalgae produce the astaxanthin

Algatech developed an **eco-friendly process** to produce natural astaxanthin thanks to microalgae. The manufacturing process is completely sustainable because it **relies on power generated in a solar panel farm** using the Arava desert's intense light **and a water recycling platform. Microalgae cultivation displaces no others crops, utilizes carbon dioxide and creates only oxygen as waste.**
It is a **genuine ecological crop** **which allows to create AstaPure® Skin.**

ASTAPURE ® SKIN

AstaPure® Skin is a concentrated form **of consistent quality & purity astaxanthin**, obtained by a supercritical CO_2 extraction from microalgae *Haematococcus pluvialis,* stabilized in olive oil (*Olea europaea*).



Rich in **natural astaxanthin, the most powerful antioxidant**, AstaPure® Skin provides global effective protection:

- Thanks to its ability to trap free radicals, AstaPure® Skin **protects the skin vital functions from oxidation and inflammation**
- Naturally **protects against harmful oxidizing effects of UV rays**

AstaPure® Skin has a global anti-aging action for a young and radiant skin.

ADDITIONAL INFORMATION

INCI/CTFA name: Haematococcus pluvialis extract / Olea europaea fruit oil / Tocopherol / Glycine max (soybean) oil
Preservative: none
Regulatory status: authorized for use in EU, USA, Japan, China (IECIC 2015) and subject to condition in Canada and Australia

APPLICATION & FORMULATION

Recommended dose: 0.01%

Antioxidant
Anti-aging

pH stability: 5.0 to 7.5
Soluble in vegetable and mineral oils, caprylic/capric triglyceride, octyldodecanol
Thermostability: recommended temperature below 45°C (can be incorporated at a maximum temperature of 70°C but must not be heated for more than 6 hours)

Formulation example:

ASTA-ANTIOXIDANT CREAM
ref.: 3441901/2
PROTECTING DAY CREAM

	INGREDIENTS	INCI name	%
A	EMULIUM MELLIFERA (GATTEFOSSÉ)	*Polyglyceryl-6 distearate / Jojoba esters / Polyglyceryl-3 beeswax / Cetyl alcohol*	4.00
	AXOL C62 (EVONIK)	*Glyceryl stearate citrate*	0.30
	SONNENATURAL (SONNEBORN)	*Olus (Vegetable) oil*	3.00
	NACOL 16-98 (SASOL)	*Cetyl alcohol*	1.00
	DUB MCT (STEARINERIE DUBOIS)	*Caprylic/capric triglyceride*	5.00
	ISOFOL 20 (SASOL)	*Octyldodecanol*	5.00
	ASTAPURE® SKIN (SOLABIA GROUP)	***Haematococcus pluvialis extract / Olea europaea fruit oil / Tocopherol / Glycine max (soybean) oil***	**0.01**
B	DEMINERALIZED WATER	*Aqua (Water)*	Qsp 100
	PRESERVATIVE	/	Qsp
C	GLYCERIN	*Glycerin*	4.00
	KELTROL CG-SFT (CP KELCO)	*Xanthan gum*	0.10
	AMIGUM-SM2 (ALBAN MULLER)	*Sclerotium gum*	0.10

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