

Sustainable Natural Astaxanthin





Quality Reliability Sustainability

Algalif is an internationally awarded industry leader in production of high quality sustainable natural astaxanthin from microalgae. We are an Icelandic company and highly committed to sustainability.

At our state of the art production facility in Iceland we only use green renewable geothermal energy and pure pristine natural water. We take pride in being renowned around the world for sustainability, reliability, and superb quality.



"Our success is based on our excellent team and our sincere commitment to sustainability and quality."

Orri Bjornsson CEO of Algalif Iceland



Icelandic Purity Is Unmatched

Iceland provides the perfect starting point for our algae cultivation – an astoundingly pristine environment, free of contaminants and pollutants; access to abundant, pure natural water; and a continuous supply of green renewable energy.

Algalif follows a comprehensive all-around environmental policy including Zero Fossil Fuel and Zero Waste policies.

A Pristine Environment

Iceland has one of the most pristine environments on Earth and is committed to preserving it. The country is regarded as one of the most sustainable nations in the world.

Pure Water in Abundance

Iceland has clean, natural freshwater in abundance. It is naturally filtered through layers of volcanic rock and is extremely clean, low in minerals and unchlorinated.

Leader In Renewable Energy

Abundant geothermal and hydro resources have made Iceland a global leader in renewable energy. The country generates 100% of its electricity from clean energy. Algalif is a leader in Iceland´s fast growing biotechnology and green industry.









Brand New, State of the art Cultivation Facility

Algalif's brand-new cultivation facility in Iceland is designed to deliver high yields of premium quality natural astaxanthin, with full contamination control, and no supply disruptions.

Latest Technology

- A designated scale-up clean room
- Indoor enclosed photobioreactor cultivation system
- · Proprietary lighting system

Superior Cultivation Protocols

- High level of astaxanthin content in the dried algal biomass (up to 7%)
- High ratio of pure astaxanthin to other carotenoids (≥ 95%)
- One of the lowest heavy metal profiles in the Industry

Outstanding Processes

- cGMP compliant
- Automated 24/7 monitoring systems
- Full analytical characterization of our products

Pure & Sustainable Inputs

- Pure Icelandic natural water
- 100% renewable geothermal energy
- Algae cultivated using high-quality nutrients (>98% purity)



How we produce astaxanthin

Algalif has developed a proprietary 3 -phase cultivation process based on the life cycle of Haematococcus pluvialis.

Scale Up

The cultures are transferred to sterile Erlenmeyer flasks and then onto larger cultivation units. Our inoculation photobioreactors ensure a steady flow of clean inoculum to our production units.

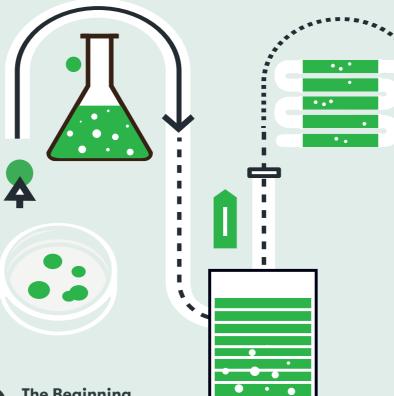
Astaxanthin Synthesis

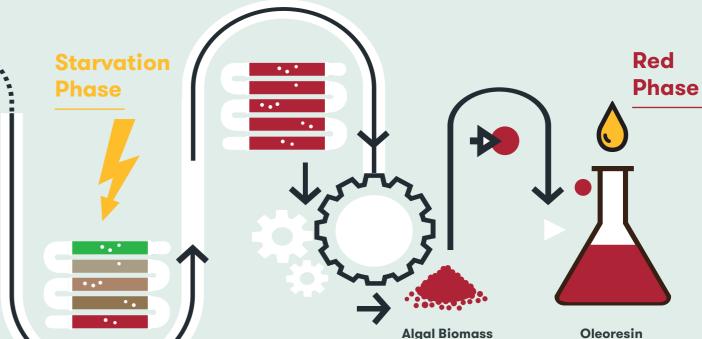
The algae culture is gradually exposed to stress conditions to induce rapid astaxanthin synthesis. When a high amount of astaxanthin is accumulated, the culture is harvested.

Astaxanthin Recovery

Astaxanthin is recovered using solventfree, supercritical CO2 extraction and standardized with high-oleic sunflower oil to produce a premium astaxanthin oleoresin.









Pure Icelandic Natural Water



Renewable Geothermal Energy

The Beginning

The process starts in our clean room where pure algae colonies are cultivated under controlled conditions by a team of dedicated cultivation experts.

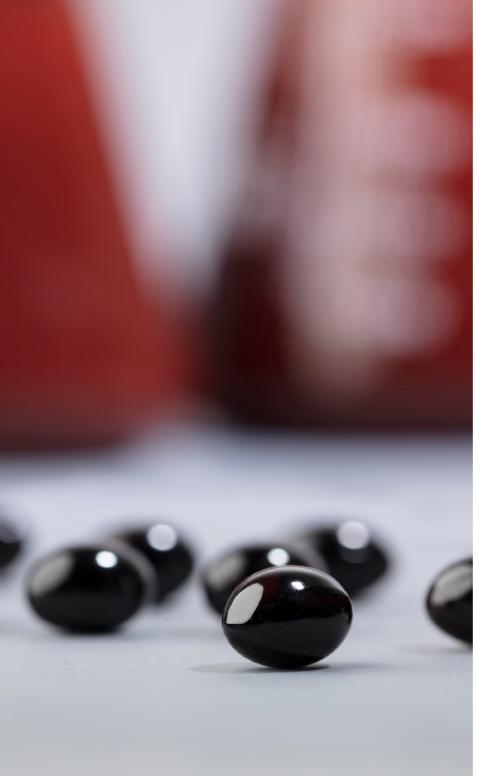
Industrial Cultivation

Indoor enclosed photobioreactors are used to accumulate a large amount of biomass. All conditions are optimized for rapid growth. When high-cell density is reached, 80-90% of the culture is transferred to the next phase and the remaining culture is recycled.

Harvesting & Biomass Processing

The algal biomass is separated from the medium and dehydrated. The algal cells are cracked to produce a highquality astaxanthin biomass.





Purely Icelandic Astaxanthin

Astalif Astaxanthin is a powerful natural antioxidant with multiple health benefits and a solid scientific foundation. Produced to rigorous quality and sustainability standards, Astalif has applications in brain health, eye health, healthy aging, cardiovascular health, muscle endurance/recovery and skin health.

Quality, Safety & Sustainability

- 100% natural
- Non-GMO
- cGMP compliant
- GRAS status in the United States
- Novel Food in Europe
- Gluten-free
- One of the lowest heavy metal profiles in the industry
- Allergen-free
- Organic solvent-free
- Cultivated with pure Icelandic natural water
- Facility 100% powered by renewable geothermal energy













Whole-Body Protection

The numerous health benefits of natural astaxanthin are documented by extensive research, including over 46 human clinical trials and more than 252 peer-reviewed papers*.

Brain Health, Eye Health & Healthy Aging
Improves cognitive function in healthy seniors.
Delays aging through reduced oxidative damage of blood lipids and delays age-related vision degeneration.

Cardiovascular Health

Reduces oxidative stress and inflammation Improves lipid profiles and promotes better blood flow in capillaries.

Muscle Endurance & Recovery

Improves muscle endurance and strength Prevents exercise-induced free radical production Inhibits the formation of lactic acid and prevents muscle fatigue.

Skin Health

Reduces hyperpigmentation, wrinkle formation and collagen breakdown. Improves skin elasticity and moisture content. Prevents UV-induced skin thickening.

*For more details please visit algalif.com



The Antioxidant Powerhouse

Natural astaxanthin is a carotenoid (organic colour pigment) produced by the microalgae Haematococcus pluvialis as a defense mechanism against harsh environmental conditions. For humans, natural astaxanthin is one of the most powerful antioxidants known, with numerous health benefits supported by extensive scientific research, including clinical trials.

Natural Astaxanthin Promotes Healthy Oxidative Balance

The human body naturally produces free radicals, harmful molecules that can damage our cells, resulting in a condition called 'oxidative stress.' Many factors in everyday life such as pollutants, unhealthy diet, excessive sun bathing, heavy exercise and smoking can further increase the number of free radicals in the body, causing premature aging and several disorders. Antioxidants like natural astaxanthin help to counteract the damaging effects of these free radicals, promoting a healthy oxidative balance.

A Superior Antioxidant

Natural astaxanthin is stronger than other antioxidants. Due to its unique chemical structure, natural astaxanthin can neutralize many different types of radicals both at the surface and interior of the cell membrane, giving better overall protection. Unlike other antioxidants, natural astaxanthin does not become a pro-oxidant, which can bring harm to the body.

Algalíf product list

	Product	Description	MOQ	Packaging size	Packaging type	Packaging measure	Gross weigth	Certification	n Not	ified
Astalif oleoresin	Astalif 5	5% astaxanthin oleoresin	50 kg	5 kg	Plastic drum	21x21x33	6 kg	Non Gmo	Carbon Neutral certified	Vegetarian
				10 kg	Plastic drum	29x29x39	11,8 kg	Halal	US FDA GRAS- recognized	Non- allergenic
				20 kg	Plastic drum	33x33x45	22,3 kg	Kosher	EU Novel Food- authorized	cGMP- produced
Astalif oleoresin	Astalif 10	10% astaxanthin oleoresin	25 kg	5 kg	Plastic drum	21x21x33	6 kg	Non Gmo	Carbon Neutral certified	Vegetarian
				10 kg	Plastic drum	29x29x39	11,8 kg	Halal	US FDA GRAS- recognized	Non- allergenic
				20 kg	Plastic drum	33x33x45	22,3 kg	Kosher	EU Novel Food- authorized	cGMP- produced
Astalif oleoresin	Astalif Crude	Crude astaxanthin oleoresin 13% - 20%	20 kg					Non Gmo	Carbon Neutral certified	Vegetarian
Astalíf								Halal	US FDA GRAS- recognized	Non- allergenic
				10 kg	Plastic drum	29x29x39	11,8 kg	Kosher	EU Novel Food- authorized	cGMP- produced
Astalif powder Astalif	Astalif Powder	5% Astaxanthin powder	50 kg	10 kg	Vacuum bag	*58x22x38	11,1 kg	Non Gmo	Carbon Neutral certified	Vegetarian
				50 kg	Vacuum bag	*58x22x38	51 kg	Halal	US FDA GRAS- recognized	Non- allergenic
								Kosher	EU Novel Food- authorized	cGMP- produced







	Product	Description	MOQ	Packaging size	Packaging type	Packaging measure	Gross weigth	Certification	n Noti	ified
Softgel capsules				Box of 15.000	Paper box	37 x 24 x 16	5.5 kg	Carbon Neutral certified		Vegetarian
	Iceland Harvest 4	4 mg vegetarian softgel capsules	120.000 capsules						US FDA GRAS- recognized	Non- allergenic
Iceland Harvest	mg bulk								EU Novel Food- authorized	cGMP- produced
In plastic jars	Iceland Harvest jar of 60 x 4 mg	Jar of 60 x 4 mg vegetarian softgel capsules	1.728 jars	Jar of 60 capsules	Plastic glass	5.5x5.5x9.7	50 g	Carbon Neutral certified		Vegetarian
				24 jars in a box	Paper box	24x32x12	1.2 kg		EU Novel Food- authorized	Non- allergenic
Iceland Harvest				72 boxes on a pallett	Pallett	80x120x110	100 kg		US FDA GRAS- recognized	cGMP- produced
Beta Glucan Nutramunity	Nutramu- nity Beta Glucan	Extra Washed 1,3/1,6- Beta Glucan from yeast	20 kg	Box of 10 kg	Paper box	30x40x29	10.8 kg	Informed- sports®	EU Novel Food- authorized	Vegetarian
				Box of 25 kg	Paper box	30x40x60	26.7 kg	Informed- choice®	US FDA GRAS- recognized	Non- allergenic
								Non Gmo Halal Kosher		GMP- produced
Beadlets	Astaxanthin 2.5%DG/O	Specifically formulated for use in	100 kg	Box of 25 kg	Aluminium bag in a card- board box	Box of 25 kg		Non Gmo		Vegetarian
Asta Beäd [™]	2.070007Q	powdered drink mixes and beverages. It offers quick dissolution when added to water.						Halal		Non- allergenic
	Astaxanthin 5%DG/Q							Kosher		
Beadlets Asta Beäd [™]	Astaxanthin 2.5%DC/ AFN-X	for nutritional bars and soft tablets.	100 kg	Box of 25 kg	Aluminium bag in a card- board box			Non Gmo		
	Astaxanthin 5%DC/ AFN-X							Halal		Vegetarian
								Kosher		Non- allergenic



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Algalif's Knowledge Center



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