

# NATURAL ASTAXANTHIN

**Haemtococcus pluvialis**

**Products line**



# Haematococcus pluvialis Powder

Product Description: AstALPHY™ Haematococcus pluvialis powder is the red or dark red powder form of astaxanthin with excellent flow ability. It's made from red Haematococcus pluvialis. The algae is cultivated in our patented photo bioreactors, a special tube glass biotechnology. After harvest, we dry fresh algal in cGMP facility. The product can be used in food supplements, nutraceuticals products and animal nutrition

## Applications

Recommended applications and dosages are as following:

Product	Application	Reference dosage (calculated by astaxanthin)
<b>AstALPHY™ Haematococcus pluvialis Powder General Specification 3,0%, 5,0%</b>	Feed for salmon, rainbow trout and aquarium fish	1) 70 mg/kg, achieve the desired pigment level for sockeye salmon 2) 100 mg/kg, achieve the increase of carotenoid in the trout's muscle 3) 70 mg/kg, for pet fish
	Feed for shrimp and crab	50mg/kg
	Meal replacement powder	4mg-12mg per bag
	Hard capsule	4mg-12mg per capsule

Food Grade I Specification : 2.0%-5.0%(HPLC)

General I Specification : 3.0%,5.0%

Packaging | Size : 1kg or 5kg aluminum foil bag in carton .



## Haematococcus pluvialis Powder

General Information		
Source	<b>Haematococcus pluvialis</b>	
Solubility	Insoluble in water	
Uses	Food supplements, nutraceutical products and animal nutrition	
Country of Manufacture	China	
Shelf Life	24 months in original packaging	
Storage	Recommend to keep the material in original packaging and stored in a cool dry area. Avoid light, heat and oxygen.	
Testing Item	Specification	Method
Physical Analysis		
Appearance	Red or dark red powder	Q/AEF 001S
Odor	Not empyreumatic; Not rancid; Not peculiar	Q/AEF 001S
Moisture	≤ 10%	GB5009.3
Ash	≤ 15%	GB5009.4
Protein	≥ 15%	GB5009.5
Active Ingredient		
Astaxanthin	≥ 2,0%; 3,0%; 5,0%	FCC-HPLC
Heavy Metal		
Lead	≤ 0.8 mg/kg	GB5009.12
Arsenic	≤ 1.0 mg/kg	GB5009.11
Mercury	≤ 0.1 mg/kg	GB5009.17
Cadmium	≤ 1.0 mg/kg	GB5009.15
Microbiology		
Total plate count	≤ 10000 CFU/g	GB4789.2
Yeast & Mold	≤ 300 CFU/g	GB4789.15
Coliforms	≤ 20 CFU/g	GB4789.3
E. coli	Negative in 1 g	GB4789.38
Salmonella	Negative in 25g	GB4789.4
Shigella	Negative in 25g	GB4789.5
Vibrio parahaemolyticus	Negative in 25g	GB4789.7
Staphylococcus aureus	Negative in 25g	GB4789.10

# Astaxanthin Oleoresin

Product Description: AstALPHY™ Astaxanthin Oleoresin is extracted from cracked *Haematococcus pluvialis*. The extraction is operated in cGMP facility. The product can be used in food supplements, nutraceutical products and cosmetics etc.

## Applications

Recommended applications and dosages are as following:

Product	Application	Reference dosage (calculated by astaxanthin)
AstALPHY™ Astaxanthin Oleoresin General Specification 5,0%; 10,0%	Softgel	4mg-12mg per softgel
	Oral liquid	6mg-9mg /50ml
	Skin care products	50mg-100mg/kg

Specification : 5.0%~10.0%(HPLC)

General I Specification : 5,0%; 10,0%

Packaging I Size : 1kg or 5kg aluminum bottle in carton



## Astaxanthin Oleoresin

General Information		
Source	<b><i>Haematococcus pluvialis</i></b>	
Solubility	Insoluble in water	
Uses	Food supplements, nutraceutical products and animal nutrition	
Country of Manufacture	China	
Shelf Life	24 months in original packaging	
Storage	Recommend to keep the material in original packaging and stored in a cool dry area. Avoid light, heat and oxygen.	
Testing Item	Specification	Method
Physical Analysis		
Appearance	Red or dark red powder	Q/AEF 002S
Odor	Not empyreumatic; Not rancid; Not peculiar	Q/AEF 002S
Moisture	≤ 6%	GB5009.236
Ash	≤ 5%	GB5009.4
Active Ingredient		
Astaxanthin	≥ 5,0%; 10,0%	FCC-HPLC
Heavy Metal		
Lead	≤ 0.8 mg/kg	GB5009.12
Arsenic	≤ 1.0 mg/kg	GB5009.11
Mercury	≤ 0.1 mg/kg	GB5009.17
Cadmium	≤ 1.0 mg/kg	GB5009.15
Microbiology		
Total plate count	≤ 1000 CFU/g	GB4789.2
Yeast & Mold	≤ 50 CFU/g	GB4789.15
Coliforms	≤ 20 CFU/g	GB4789.3
E. coli	Negative in 1 g	GB4789.38
Salmonella	Negative in 25g	GB4789.4
Shigella	Negative in 25g	GB4789.5
Vibrio parahaemolyticus	Negative in 25g	GB4789.7
Staphylococcus aureus	Negative in 25g	GB4789.10

# Astaxanthin Microencapsulated powder

Product Description: AstALPHY™ Astaxanthin Microencapsulated Powder is the red or dark red powder with excellent flow ability. The product, made from astaxanthin oleoresin by emulsification and microencapsulation, has water dispersible property. The product can be used in food supplements, nutraceutical products and beverages etc.

## Applications

Recommended applications and dosages are as following:

Product	Application	Reference dosage (calculated by astaxanthin)
<b>AstALPHY™ Astaxanthin, Microencapsulated Powder General Specification 2,0%</b>	Solid beverage	3mg-10mg per bag
	Liquid beverage	2mg-6mg/250ml
	Gummy candy	6mg per gummy
	Meal replacement powder	4mg-12mg per bag
	Protein powder	0.6g-0.9g/kg

Specification: 2.0%-2,5%(HPLC)

General I Specification : 2,0%

Packaging | Size : 1kg or 5kg aluminum foil bag in carton .



## Astaxanthin Microencapsulated powder

General Information		
Source	<b><i>Haematococcus pluvialis</i></b>	
Solubility	Dispersible in water	
Uses	Food supplements, nutraceutical products and beverages etc.	
Country of Manufacture	China	
Shelf Life	24 months in original packaging	
Storage	Recommend to keep the material in original packaging and stored in a cool dry area. Avoid light, heat and oxygen.	
Testing Item	Specification	Method
Physical Analysis		
Appearance	Red or dark red powder	Q/AEF 0012S
Odor	Not empyreumatic; Not rancid; Not peculiar	Q/AEF 0012S
Moisture	≤ 6%	GB5009.3
Ash	≤ 5%	GB5009.4
Active Ingredient		
Astaxanthin	≥ 2,0%; 2,5%	FCC-HPLC
Heavy Metal		
Lead	≤ 0.8 mg/kg	GB5009.12
Arsenic	≤ 1.0 mg/kg	GB5009.11
Mercury	≤ 0.1 mg/kg	GB5009.17
Cadmium	≤ 1.0 mg/kg	GB5009.15
Microbiology		
Total plate count	≤ 1000 CFU/g	GB4789.2
Yeast & Mold	≤ 50 CFU/g	GB4789.15
Coliforms	≤ 0,43 MPN/g	GB4789.3
E. coli	Negative in 1 g	GB4789.38
Salmonella	Negative in 25g	GB4789.4
Shigella	Negative in 25g	GB4789.5
Vibrio parahaemolyticus	Negative in 25g	GB4789.7
Staphylococcus aureus	Negative in 25g	GB4789.10

# APPLICATION SHEET

Product	Application	Example	Demand Quantity
Haemtococcus pluvialis Powder	Animal feeding	Horse	*****
		Chicken	**
		Salmon feed	*****
	Pigment	Meat	**
		Sausage	**
	Food additive	Cake	***
		Candy	***
Astaxanthin Oleoresin	Supplement	Softgel	*****
	Cosmetic	Mask	*
		Cream	**
		Essens Care	**
Astaxanthin Microencapsulation Powder	Beverage	Solid beverages	***
	Supplement	Tablet	*****
		Hard Capsule	*****