

# SPIRULINA

**Spirulina is a blue-green algae that is one of the most nutrient packed superfoods on earth.**

**This amazing environmentally sustainable algae has been a nutritious dietary supplement for thousands of years.**

## Benefits of Spirulina

### ①Antioxidants

Spirulina contains phytonutrients that have strong antioxidant and anti-inflammatory activities.\* These antioxidants support cellular health by protecting cells from the damaging effects of reactive oxygen radicals.

### ②Brain Health

Spirulina may prevent the loss of memory by lessening A $\beta$  protein accumulation, reducing oxidative damage, and mainly augmenting the catalase activity.

### ③Cardiovascular Health

Scientific evidence shows that Spirulina supports a healthy cardiovascular system, and protects from oxidative stress. Spirulina may lower total cholesterol, LDL cholesterol, and triglycerides while raising HDL (the "good") cholesterol.

### ④Cellular Health

Free radicals can cause damage to parts of cells such as proteins, DNA, and cell membranes by stealing their electrons through a process called oxidation. Antioxidants in spirulina such as Phycocyanin can help fight free radicals in the body.

### ⑤Eye Health

Spirulina contains 15x more Vitamin A (Beta-carotene) than carrots. Spirulina contains nutrients such as Essential Amino Acids, & Zinc which may help ward off age-related vision problems such as macular degeneration & cataracts.

### ⑥Immune Support

Spirulina has been shown to promote innate (inborn) immunity, the body's first line of defense. In this regard, it promotes macrophage function, T-cell proliferation, and Natural Killer Cell activity. It is also important in the regulation of antibody production.

### ⑦Sports Health

Spirulina has a certain anti-inflammatory effect. This is because some allogeneic anti-inflammatory drugs often use this mechanism, which can quickly and significantly reduce chronic pain, so it is very suitable for use after exercise and produces many micro-inflammatory. As mentioned above, due to its ability to release erythropoietin (EPO), Spirulina improves athletes' performance and recovery ability, which naturally contributes to the formation of red blood cells.



## Spirulina Alkali Lake in the Ordos Plateau

- ①The Ordos region in Inner Mongolia is the world's largest spirulina breeding base. And has the local unique algae species: low-temperature spirulina platensis, the only spirulina containing DHA.
- ②The Ordos region of Inner Mongolia is far from the city. There are almost no industrial sites near the farm. The air is clean and almost pollution-free. This makes the spirulina in the Ordos the purest, cleanest, and safest on the earth.
- ③The Ordos area is located at 40° north latitude and has a long daily time, with up to 3076 hours of sunshine throughout the year, which lays a good foundation for the photosynthesis of spirulina.
- ④Compared with other spirulina cultivation areas, the environment in the Ordos, Inner Mongolia is more suitable for the growth of spirulina, which makes the protein content of spirulina generally between 65%-72%.
- ⑤The Ordos area is rich in alkaline lake water resources in the plateau area, and fully utilizes the water resources of 500 meters underground for breeding. The high-quality water quality makes the spirulina heavy metal content extremely low. (Lead  $\leq 0.2$ , arsenic  $\leq 0.3$ , mercury and cadmium are almost 0)
- ⑥Spirulina in the Ordos maintains 100% purity throughout the growth process because no radiation, chemicals, herbicides, or insecticides are used. Dry within a few seconds to maintain complete nutritional value. Every day, farm scientists conduct dozens of rigorous quality control tests to ensure that our high quality exceeds all international food standards. Quality spirulina comes from the best environment and cultivation practices.



## How is Spirulina Quality Controlled?

- ①Spirulina that meets regulations and certification requirements  
Our spirulina powder is produced according to the US Federal Food, HACCP food safety system, and other international certifications (HALAL, KOSHER, etc.). We ensure that the facilities, methods, practices, and control measures used in the manufacture, processing, packaging, or storage of products meet or comply with the requirements in the product certification system to ensure that our products are safe to eat. It has been prepared, packaged, and stored under hygienic conditions.



BINMEI invests a lot of money in research and development and testing and can carry out many important quality control tests on the live spirulina planted and the final product. Every batch of products produced every day must be tested and verified before they can be sold. A certificate of analysis is attached to the product when it leaves the factory, which states the identity, effectiveness, and safety of the product.

- ②Pesticide-free spirulina  
The partners working with BINMEI have never used pesticides or herbicides in the process of spirulina cultivation. Our spirulina has also conducted additional environmental residue tests. Independent laboratory testing did not find more than 66 possible pollutant residues. We believe that this extra level of assurance is essential for quality-conscious natural food customers.
- ③Study on the safety of algal toxin  
BINMEI is to ensure that these toxic algae do not exist in the spirulina pond. First, daily microscopic examination of life culture. Second, we send our technicians to our farm every year to develop immunoassays and enzyme inhibition bioassays to detect nanogram levels of toxins. Spirulina's safety means continuous research and standardized testing.





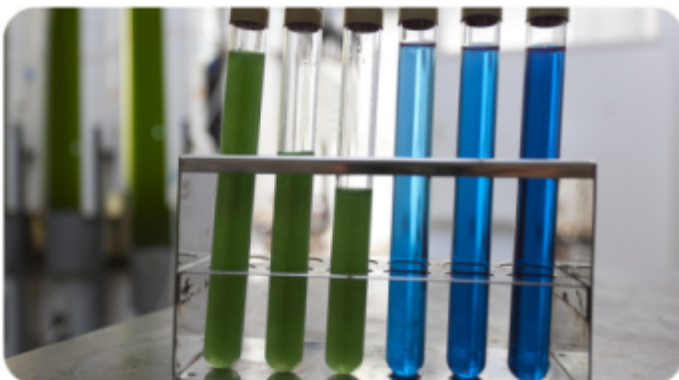
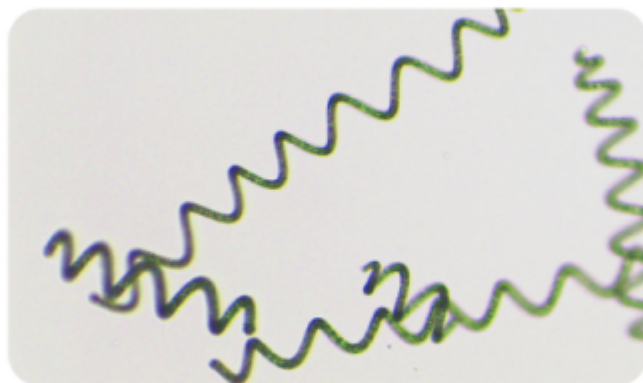
## High-quality algal species cultivation plan

Good products are inseparable from good raw materials. BINMEI has invested a lot of money and time and is constantly committed to the cultivation of high-quality algae species. We have cultivated high-quality spirulina through comprehensive methods such as technical screening, environmental adaptability domestication, genetic stability assessment, growth rate inspection, and nutrient analysis. Seed strains.

At the same time, BINMEI has also researched on the culture medium of spirulina cultivation, providing suitable fertilizer nutrition formulas and suggestions, helping spirulina farms to do fertilizer analysis, making full use of the CO<sup>2</sup> in the air, reducing a lot of fertilizer waste, and producing purer, cleaner and safer spirulina, at the same time, to a greater extent reduce environmental pollution.

## Physical Properties / Characteristics

Colour/Odour	Green powder with the characteristic odor of seaweed
Bulk Density	400-600 g/l (300-500 kg/m <sup>3</sup> )
Particle Size D90%	<150 um (80 mesh)
Ingredient	Edible spirulina powder
Form	Powder
Packaging	Packed in food grade aluminum foil bags
Storage	Store in a clean dry cool area
Shelf Life	+2 years from pulverize date Preservation: Without preservatives



## Contact

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Web: [www.binmei-global.com](http://www.binmei-global.com)



# HACCP Management Activities



## CERTIFICATE OF HACCP CERTIFICATION

Certificate No.: 115HACCP1700106

This is to certify that

### Zhejiang Binmei Biotechnology Co., Ltd.

Address: No.5, Beiyang 9th Road, Touden Port Development Area, Linhai, Zhejiang Province, China

Post Code: 317013

Under Certificate Scope according to  
**GB/T27341-2009 Hazard Analysis and Critical Control Point (HACCP) System  
General Requirements for Food Production Enterprises, GB14881-2013 National Standard  
for Food Safety General Health Requirements for Food Production,  
CHTC 0243-2018 Specialized HACCP Audit Scheme**

Hazard Analysis and Critical Control Point (HACCP System) Supplementary Requirements 1.0

**Certificate Scope:** HACCP Management Activities of Production of Spirulina Extract, by  
Zhejiang Binmei Biotechnology Co Ltd. Workshop, Produced in No.5, Beiyang 9th  
Road, Touden Port Development Area, Linhai, Zhejiang Province.

First	Prior to 2018-09	Certification of supervision
Second	Prior to 2019-09	Certification of supervision
Third/Recertification	Prior to 2019-06	----

(The validity of this certificate will be attained and sustained according to the regular supervision and verification with the marks of CHTC)

Issue Date: 2017-09-27

Expiry Date: 2020-09-26

Change Date: 2018-09-27

G.M



Beijing Continental Hengtong Certification Co., Ltd

Room 303, Floor 3, Building 1, Fengzhuyuan, No.18 of Jiaomen, Fengtai District, Beijing  
(P.R.100068) [Http://www.bjchtc.com](http://www.bjchtc.com)



# International Halal Certificate

## International Halal Certificate

شهادة الحلال

CERTIFICATE NUMBER: SSPY-201318-31596



It is hereby certified that:

1. Spirulina Extract (Phycocyanin)
2. Superfine spirulina
3. Spirulina Powder

manufactured/distributed/managed by:

Company Name : ZHEJIANG BINMEI BIOTECHNOLOGY CO., LTD.

Company Address : No.5 Beiyang 9th Road, Tou Men Port Development Area, Linhai City, Zhejiang Province, China.

Has complied with the HALAL requirements according to the Shariah (Islamic Law).

Issued on : 22nd Oct, 2019

Valid until : 21st Oct, 2020

*Cassim Tie*

**Haji Kassim Tie Qunping** / President  
**ShaanXi Shang Pin Yuan Halal Food & Restaurant Management Co., Ltd (SSPY)**



JAKIM Malaysia Recognizes Foreign Halal  
Certification Body In China  
Ref No. : JAKIM.HH.900-6/7 Jld.2(37)

No.70, Xi Bei Yi Road, Qing Nian Street, Lian Hu District, Xi'an, Shaanxi, China  
Tel: (0086) 029-88638790 E-mail: ssPY-halal@foxmail.com Web: www.sspyhalal.com



# KOSHER Certification



## **STAR-K KOSHER CERTIFICATION**

May 15, 2020  
21 Iyar 5780

Zhejiang Binmei Biotechnology Co., Ltd.  
No. 5 Beiyang Nine Road  
Toumen Port District  
Linhai, Zhejiang 317013  
China

This is to certify that the 6 products specified in the listing below, manufactured by ZHEJIANG BINMEI BIOTECHNOLOGY CO., LTD. of the above address, are Kosher and under our supervision.

PLEASE NOTE THE FOLLOWING CONDITIONS OF CERTIFICATION:

**All products listed below are Pareve.**

**All products listed below are Kosher for year-round use, excluding Passover.**

**All products listed below are certified Kosher when manufactured by Zhejiang Binmei Biotechnology Co., Ltd. of Taizhou City, Zhejiang, China, as stated on original manufacturer's label.**

**This letter of certification is valid through February 28, 2021 and is subject to renewal at that time.**

**BRAND: Binmei**

**UKD#**

SKSZVU5Q8CI  
SKJYS1Q4LEW  
SKZ1X3AN6GW  
SK47WP43TTM  
SK3MK5FNBAY  
SK36K3WS10G

**PRODUCT LISTING**

Spirulina Extract  
Spirulina Liquid Extract  
Spirulina Powder  
Spirulina Product  
Spirulina Protein Powder  
Superfine Spirulina

Rabbi Eliyahu Shuman  
Director of Supervision

Effective Through 02/28/2021