



**宾美生物**  
BINMEI BIOTECHNOLOGY

# **Technical Data Sheet**

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# **Spirulina Superfine Powder**

# Technical data sheet

Product Name: Spirulina superfine powder

Specification: 600 mesh

Company name: Zhejiang Binmei Biotechnology Co., Ltd.

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

Revision date: 16 May 2022

Version: 1.2.2

## PRODUCT DESCRIPTION



As an ecologically sound, nutrient-rich dietary supplement, spirulina is being investigated to address food security and malnutrition, and as dietary support in long-term space flight or Mars missions. It's advantage for food security is that it needs less land and water than livestock to produce protein and energy.

Spirulina is a comprehensive nutritious alga and is identified as the safest and reliable edible food. Our raw material is from the non-polluted, natural alkaline lake in the Inner Mongolia plateau, where there is plenty of sunshine and a big temperature difference between day and night. Our raw material is carefully selected. It is the best choice for athletes, dieters, convalescents, vegetarians, bodybuilders,

and health-conscious people of all age groups.

### Benefits of 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.

#### Antioxidants

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.

#### Cardiovascular 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.

#### Immune 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.



## SUPPLIER DETAILS

Supplier name	Zhejiang Binmei Biotechnology Co., Ltd.
Address	No.5, Beiyang 9th road, Toumen Port, Linhai, Zhejiang 317015, China
Tel	0086-576-89395152
Fax	0086-576-89395152-808
E-mail	sales@chinabinmei.com
Website	www.binmei-global.com

## THIRD PARTY CERTIFICATION

Standard	Certification body	Date of registration
Halal	ShaanXi Shang Pin Yuan Halal Food&Restaurant Management Co.,Ltd(SSPY)	Per year
Kosher	STAR-K KOSHER CETIFICATION	Per year

## CONTACT DETAILS

Department	Name	E-mail	Tel
Sales	-	sales@chinabinmei.com	0086-576-89395152
R&D	Bingquan Zhang	bingquan.z@chinabinmei.com	0086-576-89395152
QA&QC	Zhongmin Ma	info@chinabinmei.com	0086-576-89395152



## BASIC INFORMATION

Product name	Spirulina superfine powder
Product brand	BINMEI
Raw material	Edible spirulina powder
Form	Powder
Specification	600 mesh
Grade	Food grade
Colour/Odour	High-pressure broken, homogeneous emulsified spirulina
Bulk Density	300-500g/l(300-500kg/m <sup>3</sup> )
Particle Size D50%	<10um
Particle Size D90%	<20um
Packaging	Inner packaging: food grade aluminum foil bag; Outer packing: drum
Storage	Store in a clean dry cool area
Shelf Life	+2 years, without preservatives
Manufacturer	Zhejiang Binmei Biotechnology Co., Ltd
Origin country	China
CAS No.	724424-92-4
EINECS	1308068-626-2
HS Code	1302199099

## Typical Proximate Analysis



Component	Percent
Protein	> 60%
Carbohydrate	11%
Ash (minerals)	7%
Moisture	7%
Fat	5%

## NUTRITIONAL FACTS

Parameter	Percent	Unit
Calcium	0.37	%
Chloride	0.25	%
Iron	0.12	%
Magnesium	0.35	%
Phosphorus	0.23	%
Potassium	0.18	%
Sodium	0.4	%
Chromium	2.1	mg/kg
Copper	2.7	mg/kg
Manganese	17.6	mg/kg
Zinc	29.37	mg/kg
Vitamin C(Ascorbic acid)	80	mg/kg
Vitamin B1(Thiamin)	50	mg/kg
Vitamin B2(Riboflavin)	40	mg/kg
Vitamin B3(Niacin)	113	mg/kg
Vitamin B6(Pyridoxine)	3	mg/kg
Vitamin E	152	mg/kg
Carotene	3800	mg/kg
Beta-carotene	1200	mg/kg
Chlorophyll	8500	mg/kg
Phycocyanin	67000	mg/kg

## HEAVY METAL LEVELS

	Specification	Results	Test methods
Lead(Pb)	≤0.9(mg/kg)	≤0.73(mg/kg)	GB5009.12-2017
Arsenic(As)	≤0.5(mg/kg)	≤0.38(mg/kg)	GB5009.11-2014
Cadmium(Cd)	≤0.2(mg/kg)	≤0.01(mg/kg)	GB5009.15-2014
Mercury(Hg)	≤0.05(mg/kg)	≤0.04(mg/kg)	GB5009.17-2014

Microbiological tests are carried out on each batch to ensure product quality and compliance with applicable regulations.

## MICROBIOLOGICAL STANDARDS

	Specification	Results	Test methods
Total viable cunt	≤50000(CFU/g)	Conforms	GB4789.2-2016
Yeasts and mold	≤100(CFU/g)	Conforms	GB4789.15-2016
Coliforms	≤30(CFU/g)	Conforms	GB4789.3-2016
Salmonella	Negative(/25g)	Not detective	GB4789.4-2016
Staphylococcus aureus	≤100(CFU/g)	Not detective	GB4789.10-2016
Vibrio parahaemolyticus	≤3(MPN/g)	Not detective	GB4789.10-2016

“Heavy metal levels in Spirulina are low in comparison to Ascophyllum and Kelp. Formulating safe Spirulina allows us to keep the undesirables to a minimum”.

## DIET SUITABILITY INFORMATION

	Suitable(YES/NO)	Certified(YES/NO)
Kosher	YES	YES
Halal	YES	YES
Vegetarians	YES	NO
Vegans	YES	NO

## CERTIFICATES SUPPLIED

	Per batch	Per delivery	Annual
Certificate of conformance	YES	YES	YES
Certificate of analysis	YES	YES	YES
Chemical analysis	YES	YES	YES
Microbiological analysis	YES	YES	YES
Heavy metals analysis			YES
Solvent residues analysis			YES
Pesticide residues analysis			YES
Analysis for illegal dyes			YES

Additional information

- No Additives or Processing Aids used (Catalogue number 7.2.6 as per Commission Regulation 68/2013 Catalogue of Feed Materials).
- FDA facility registration number: 12595057088(China).
- Ocean Harvest Technology does not use GMO in any product..
- The product has no allergens.

**Disclaimer: Seaweed is a 100% natural product and analytical values may vary from the typical analysis due to natural variation on the product. Therefore, the values given herein should be considered as typical averages and not as conditions of sale.**