

Qingdao Shenghai Ocean Biotech Co., Ltd. is a joint venture established by Qingdao Gather Great Ocean Algae Industry Group and State-owned Capital. Qingdao Shenghai Company is a comprehensive pharmaceutical technology enterprise integrating research and development, production and international sales.

Based on the supply chain advantage accumulated by the parent company of the Qingdao Gather Great Ocean Algae Industry Group for more than 20 years, Shenghai Company uses seaweed raw materials from all over the world to produce seaweed capsules. The seaweed capsule has beautiful appearance, exquisite structure, excellent indexes and safety. Because of the high suitability ratio of the seaweed capsule has been praised by domestic and foreign customers.

As a Marine biomedicine enterprise, Shenghai company has obtained unique capsule patents and international BRC, HALAL, KOSHER, NSF system certification, completed registration with FDA in the United States.

## COMPANY PROFILE

**Strive to become a world-class  
professional manufacturer of  
marine plant capsules**



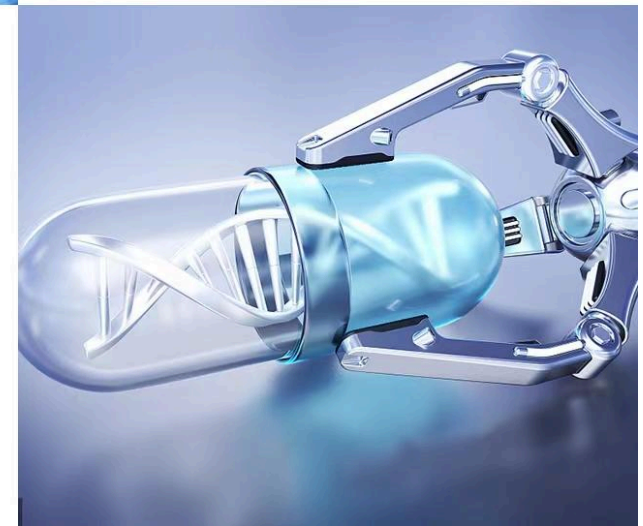
Our conventional capsules are transparent capsules and white capsules, which are made of Hydroxy Propyl Methyl Cellulose ( HPMC) and Seaweed Polysaccharide by low temperature molding process.

## Unique competitive advantage

Color capsules do not add titanium dioxide, we provide customized color service for customers. Our professional team will color the capsule shell according to the standard color number specified by the customer.



We can provide customers with a variety of printing services, such as company name, brand name, product name and etc., which is conducive to better display the company brand and product characteristics, convenient for users to distinguish different drugs and avoid misuse.







## Safety

- ◆ It apply to all kinds of people due to there is no any animal components;
- ◆ No preservatives added ;
- ◆ Ethylene oxide will not be used to sterilize, no chloroethanol residue;
- ◆ Color capsule does not contain titanium dioxide.

## Capsule suitability

- ◆ Good toughness, high strength, easy to fill operation ;
- ◆ Capsule suitability ratio reached 99.99%.

## Moisture

- ◆ Drying weight loss is less than 8.0%, suitable for water sensitive drugs.

## Breakage

- ◆ With good physical properties, good breakage, not brittle, easy to store.



## Compatibility

Stable chemical composition, no crosslinking reaction, no condensation reaction, no Maillard reaction;

- ◆ No risk of Cross-linking Reaction with aldehyde based drugs and the large ring lactone antibiotic to avoid the difficulties for disintegration and dissolution after long time storage;

- ◆ No risk of Maillard Reaction with carbohydrate drugs. No discoloration and caking;

- ◆ No risk of Condensation Reaction with the tannins chemical composition existing in Traditional Chinese medicine. This prevents the drug from not disintegrating or dissolving.

## The storage condition

The product should be sealed up, the temperature is 10-30°C and the humidity is 20%--65%.

## Shelf-life

24 months

## The specifications


Type	Length(mm)			Outer diameter(mm)		Weight(mg)
	Cap	Body	Capsule	Cap	Body	
00#	11.70±0.20	20.20±0.20	24.50±0.30	8.48±0.05	8.18±0.05	122±8
0#	11.00±0.20	18.60±0.20	21.00±0.30	7.66±0.05	7.33±0.05	98±7
1#	9.80±0.20	16.60±0.20	18.80±0.25	6.93±0.05	6.64±0.05	76±6

## The filling quantity with difference spicity

Type	Volume(cm <sup>3</sup> )	Outer diameter(mg)			
		0.6(g/cm <sup>3</sup> )	0.8(g/cm <sup>3</sup> )	1.0(g/cm <sup>3</sup> )	1.2(g/cm <sup>3</sup> )
00#	0.95	570	760	950	1140
0#	0.68	408	544	680	816
1#	0.50	300	400	500	600

## The quality standards

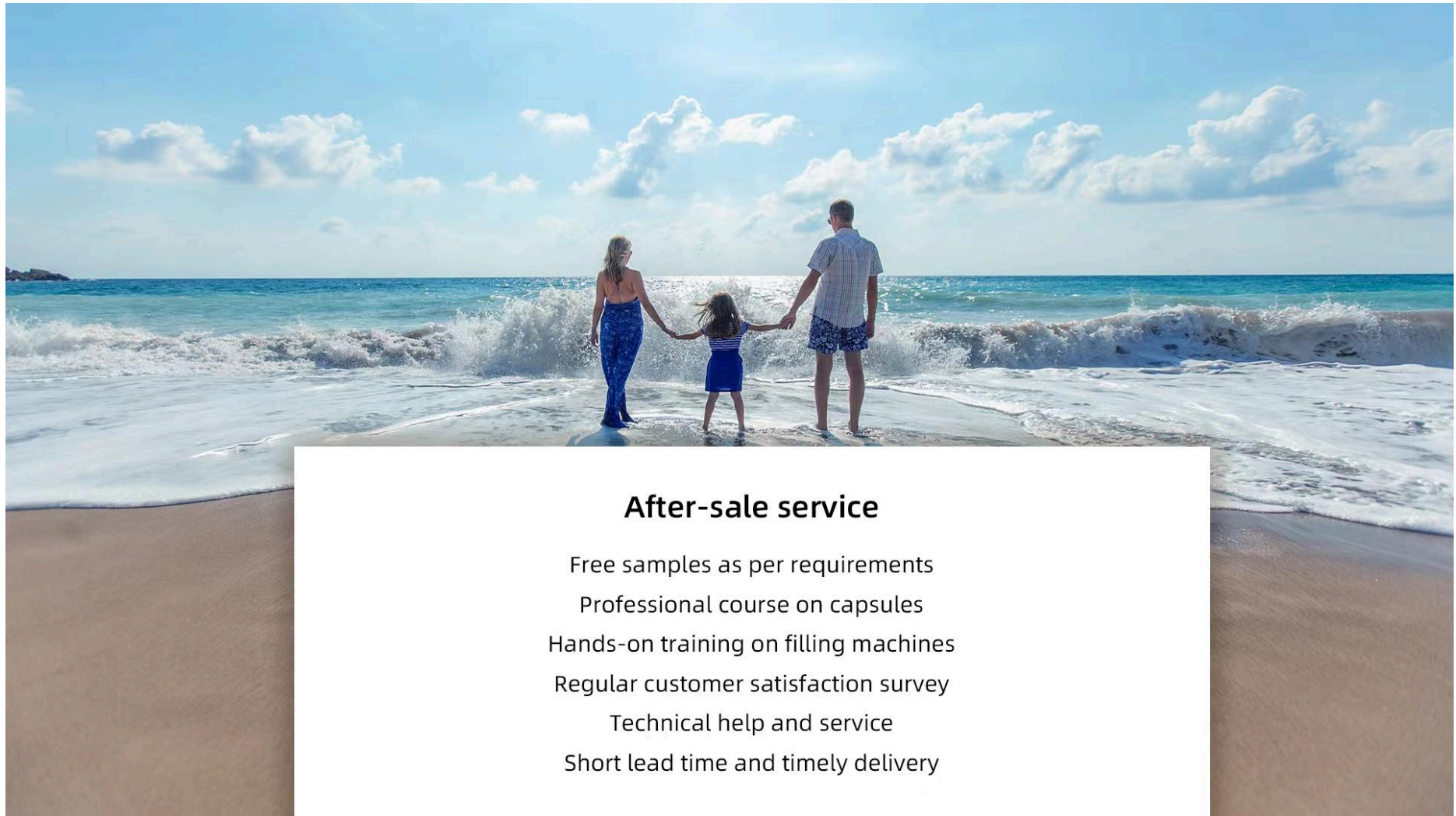
Item	The Ch.p.	This product
Tightness	≤1of10	≤1of10
Broken rate	≤2of50	≤2of50
Desintegration time(min)	≤15	≤15
Loss on drying(%)	< 8.0%	3.0%~8.0%
Residue on ignition	≤3.0%(transparent); ≤5.0%(translucent); ≤9.0%(opaque);	≤3.0%(transparent); ≤4.0%(translucent); ≤6.0%(opaque);
Arsenate(mg/kg)	≤0.0002%	≤0.0002%
Heavy metal(mg/kg)	≤20	≤20
TPC(cfu/g)	≤1000	≤500
Mould Yeast(cfu/g)	≤100	≤80
Escherichia coli	Not detected	Not detected



### The Pack specification

Type	00#	0#	1#
Ten thousand per case	8	10	14





## **After-sale service**

- Free samples as per requirements
- Professional course on capsules
- Hands-on training on filling machines
- Regular customer satisfaction survey
- Technical help and service
- Short lead time and timely delivery