

REGISTRATION INFORMATION

登记备案信息

The product has completed the registration at the Center for Drug Evaluation of National Medical Products Administration, with the registration number F20190001009/A.

产品完成国家药品监督管理局药品审评中心备案，登记号为F20190001009/A。

The product has completed registration with the U.S. Food and Drug Administration (FDA), with a DMF (Drug Master File) registration number of 035448/A.

产品完成美国食品药品监督管理局备案DMF登记号为035448/A。

COMPLETE SPECIFICATIONS

规格型号齐全

We can produce a variety of specifications, including 000#, 00el#, 00#, 0el#, 0#, 1el#, 1#, 2#, 3#, 4#.

可生产000#、00el#、00#、0el#、0#、1el#、1#、2#、3#、4#多种规格型号。

COLOR, PRINTING CUSTOMIZATION

颜色、印字定制化

We have a variety of pigments such as food-grade synthetic pigments, pearlescent pigments, natural pigments, iron oxide pigments, titanium-free formulas and a variety of opacifier for customers to choose. We have a variety of printing methods such as circumferential printing, axial printing, and two-color printing.

拥有食品级合成色素、珠光色素、天然色素、氧化铁类色素、无钛配方等多种色素及遮光剂供客户选择。拥有环向印字、轴向印字、双色印字等多种印字方式。

EMPTY GELATIN CAPSULES

明胶空心胶囊



AUTOMATIC EMPTY CAPSULE PRODUCTION EQUIPMENT

全自动空心胶囊生产设备

We use automatic empty capsule production equipment, the process equipment is highly intelligent, and products are not sterilized by adding bacteriostatic agent or using ethylene oxide (ethylene oxide and derivatives ≤ 0.1 PPM). Products comply with the regulatory requirements of China, the United States, the European Union and other major countries and regions.

使用全自动空心胶囊生产设备，工艺设备智能化程度高，产品不添加抑菌剂，不使用环氧乙烷灭菌（环氧乙烷及衍生物 ≤ 0.1 PPM）。符合中国、美国、欧盟等主要国家和地区的法规要求。

EMPTY GELATIN CAPSULES

明胶空心胶囊



Empty Gelatin Capsule is made from gelatin for capsules with added pigment and opacifier etc. Empty Gelatin Capsule has advantages such as smell masking, high bio-availability, pleasant appearance and easy to swallow. It is a widely used pharmaceutical excipient. Besides, it is mainly disintegrated and absorbed in stomach.

明胶空心胶囊是由胶囊用明胶添加适量的色素、遮光剂等制成。产品具有良好的掩味作用、生物利用度高、美观、易于吞服，是被广泛选用的一种药用辅料，主要在胃部发生崩解和吸收。



Yiqing Biotechnology has independently investigated anti-cross-link-ing empty gelatin capsules, anti-brittle empty gelatin capsules, fast disintegrating empty gelatin capsules, dry powder inhalation empty gelatin capsules, etc. and can produce empty fish gelatin capsules and empty pure bovine bone gelatin capsules, to meet the devel-opment needs of customers for new drugs, generic drugs and special contents.

自主研发了抗交联明胶空心胶囊、防脆碎明胶空心胶囊、速崩明胶空心胶囊、干粉吸入用明胶空心胶囊等，同时可生产鱼明胶空心胶囊、纯牛骨明胶空心胶囊，满足客户新药、仿制药、特殊内容物的开发需求。



REGISTRATION INFORMATION 登记备案信息

The product has completed the registration at the Center for Drug Evaluation of National Medical Products Administration, with the registration number F20170000056/A.

产品完成国家药品监督管理局药品审评中心备案，登记号为F20170000056/A。

The product has completed registration with the U.S. Food and Drug Administration (FDA), with a DMF (Drug Master File) registration number of 035449/A.

产品完成美国食品药品监督管理局备案DMF登记号为035449/A。

COMPLETE SPECIFICATIONS 规格型号齐全

We can produce a variety of specifications, including 000#, 00el#, 00#, 0el#, 0#, 1el#, 1#, 2#, 3#, 4#.

可生产000#、00el#、00#、0el#、0#、1el#、1#、2#、3#、4#多种规格型号。

COLOR, PRINTING, FORMULATION CUSTOMIZATION 颜色、印字、处方定制化

We have a variety of pigments such as food-grade synthetic pigments, pearlescent pigments, natural pigments, iron oxide pigments, titanium-free formulas and a variety of opacifier for customers to choose. We have a variety of printing methods such as circumferential printing, axial printing, and two-color printing. We can produce customized empty hypromellose capsules prepared with gellan gum, or carrageenan.

拥有食品级合成色素、珠光色素、天然色素、氧化铁类色素、无钛配方等多种色素及多种遮光剂供客户选择。拥有环向印字、轴向印字、双色印字等多种印字方式。可以生产结冷胶型、卡拉胶型等定制型羟丙甲纤维素空心胶囊。

EMPTY HYPROMELLOSE CAPSULES

羟丙甲纤维素
空心胶囊



NATURAL WOOD PULP CELLULOSE AS RAW MATERIAL

天然木浆纤维素作为原料

Hypromellose is inert material which free of amino acids, that could prevent the capsule having a cross-linking reaction and Maillard reaction with contents, and can be widely used in all kinds of drugs and health-care food.

羟丙甲纤维素是惰性材料，不含氨基酸类物质，可以避免与药物发生交联反应，杜绝美拉德反应等，可以广泛的应用于各类药品、保健食品。

We use automatic empty capsule production equipment, the process equipment is highly intelligent, and products are not sterilized by adding bacteriostatic agent or using ethylene oxide (ethylene oxide and derivatives ≤ 0.1 PPM). Products comply with the regulatory requirements of China, the United States, the European Union and other major countries and regions.

使用全自动空心胶囊生产设备，工艺设备智能化程度高，产品不添加抑菌剂，不使用环氧乙烷灭菌（环氧乙烷及衍生物 ≤ 0.1 PPM），符合中国、美国、欧盟等国家和地区的法规要求。

EMPTY HYPROMELLOSE CAPSULES

羟丙甲纤维素空心胶囊

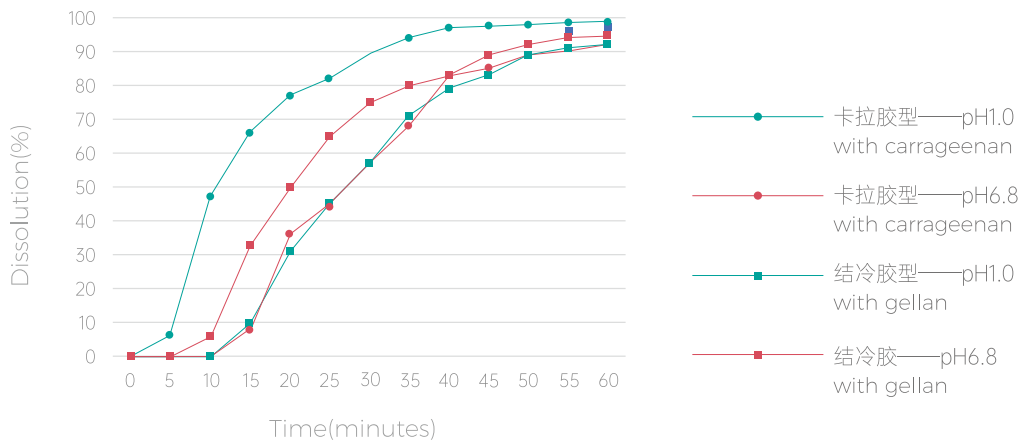


Empty Hypromellose Capsule consists of hydroxypropyl methylcellulose made from pine wood pulp and an appropriate number of plant-sourced accessories. natural wood pulp cellulose can meet the needs of vegetarians and people with special religions,while meet the concept of product safety & non-toxic, environmental protection and health. Its characteristics of low moisture and high toughness can meet the filling requirement of high hygroscopic contents, especially suitable for the filling of traditional Chinese medicine, plant extracts and other contents.

羟丙甲纤维素空心胶囊是由松木木浆制羟丙甲纤维素和适量的植物来源辅料制成。可以满足素食人士及有特殊信仰的人士需求，可以满足产品安全无毒、环保健康的理念。其低水分，高韧性的特点，可以满足高吸湿性内容物的充填，尤其适合中药类药物、植物提取物等内容物的充填。



卡拉胶/结冷胶羟丙甲纤维素空心胶囊不同介质溶解速度
Empty Hypromellose Capsules with carrageenan/gellan gum dissolution performance



REGISTRATION INFORMATION

登记备案信息

- The product has completed the registration at the Center for Drug Evaluation of National Medical Products Administration, with the registration number F20180000071/I.
- 产品完成国家药品监督管理局药品审评中心备案，登记号为F20180000071/I。
- The product has completed registration with the U.S. Food and Drug Administration (FDA), with a DMF (Drug Master File) registration number of 035621/A.

产品完成美国食品药品监督管理局备案DMF登记号为035621/A。

COMPLETE SPECIFICATIONS

规格型号齐全

We can produce a variety of specifications, including 000#, 00el#, 00#, 0el#, 0#, 1el#, 1#, 2#, 3#, 4#.

可生产000#、00el#、00#、0el#、0#、1el#、1#、2#、3#、4#多种规格型号。

COLOR, PRINTING, FORMULATION CUSTOMIZATION

颜色、印字定制化

We have a variety of pigments such as food-grade synthetic pigments, pearlescent pigments, natural pigments, iron oxide pigments, titanium-free formulas and a variety of opacifier for customers to choose. We have a variety of printing methods such as circumferential printing, axial printing, and two-color printing.

拥有食品级合成色素、珠光色素、天然色素、氧化铁类色素、无钛配方等多种色素及多种遮光剂供客户选择。拥有环向印字、轴向印字、双色印字等多种印字方式。

EMPTY PULLULAN CAPSULES

普鲁兰多糖
空心胶囊



**PURE NATURAL PLANT
SOURCE**
纯天然植物来源

EMPTY PULLULAN CAPSULES

普鲁兰多糖空心胶囊



Empty Pullulan Capsule is made from Pulullan which extracted from natural plant material by fermentation of Aureobasidium pullulans and appropriate minor ingredients.

普鲁兰多糖空心胶囊是以天然植物性物料经出芽短梗霉发酵获取的普鲁兰多糖为原料，加适当的辅料制成。



Pure natural plant source, which can meet the needs of vegetarians and people with special religions; it is non- pesticide residue, non- BSE / TSEs, and non- transgenic risk.By Crystal clear appearance, easy to be accepted by consumers.

纯天然植物来源，可以满足素食人士及有特殊信仰人士的需求；无农残，无BSE/TSE、无转基因风险。外观晶莹剔透，易被消费者接受。

We use automatic empty capsule production equipment, the process equipment is highly intelligent, and products are not sterilized by adding bacteriostatic agent or using ethylene oxide (ethylene oxide and derivatives ≤ 0.1 PPM). Products comply with the regulatory requirements of China, the United States, the European Union and other major countries and regions.

使用全自动空心胶囊生产设备，工艺设备智能化程度高，产品不添加抑菌剂，不使用环氧乙烷灭菌（环氧乙烷及衍生物 ≤ 0.1 PPM）。符合中国、美国、欧盟等主要国家和地区的法规要求。



REGISTRATION INFORMATION 登记备案信息

The product has completed the registration at the Center for Drug Evaluation of National Medical Products Administration, with the registration number F20190001034/A.

产品完成国家药品监督管理局药品审评中心备案，登记号为F20190001034/A。

COMPLETE SPECIFICATIONS 规格型号齐全

We can produce a variety of specifications, including 0#, 1#, 2#, 3#.

可生产0#、1#、2#、3#多种规格型号。


COLOR, PRINTING, FORMULATION CUSTOMIZATION

颜色、印字定制化

- We have a variety of pigments such as food-grade synthetic pigments, pearlescent pigments, natural pigments, iron oxide pigments, titanium-free formulas and a variety of opacifier for customers to choose. We have a variety of printing methods such as circumferential printing, axial printing, and two-color printing.

拥有食品级合成色素、珠光色素、天然色素、氧化铁类色素、无钛配方等多种色素及多种遮光剂供客户选择。拥有环向印字、轴向印字、双色印字等多种印字方式。

EMPTY ENTERIC GELATIN CAPSULES



肠溶明胶
空心胶囊





REDUCE THE IRRITATION OF THE CONTENTS TO THE STOMACH

减少内容物对胃部的刺激

EMPTY ENTERIC GELATIN CAPSULES

肠溶明胶空心胶囊



Empty Enteric Gelatin Capsule is a kind of empty hard capsule which is made from gelatin for capsules with added auxiliary materials and appropriate enteric materials, which is divided into enteric capsule and colonic enteric capsule. It is possible to initiate the release of the drug in the upper small intestine or colon to reduce the irritation of the contents to the stomach or to avoid the degradation of the contents in the stomach. For acid-sensitive drugs, empty enteric gelatin capsule can apply a great protection.

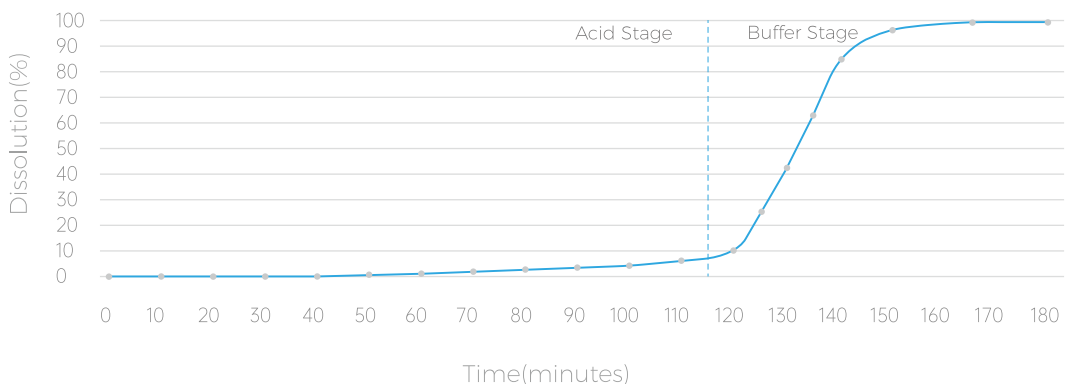
肠溶明胶空心胶囊是由胶囊用明胶加辅料和适宜的肠溶材料制成的空心硬胶囊，分为肠溶胶囊和结肠肠溶胶囊两种。可以实现小肠上部或结肠开始释药，减少内容物对胃部的刺激或避免内容物在胃部降解，对于酸敏感药物，肠溶明胶空心胶囊能起到良好的保护作用。

使用全自动空心胶囊生产设备，工艺设备智能化程度高，产品不添加抑菌剂，不使用环氧乙烷灭菌（环氧乙烷及衍生物 $\leq 0.1\text{PPM}$ ）。符合中国、美国、欧盟等主要国家和地区的法规要求。

We use automatic empty capsule production equipment, the process equipment is highly intelligent, and products are not sterilized by adding bacteriostatic agent or using ethylene oxide (ethylene oxide and derivatives $\leq 0.1\text{PPM}$). Products comply with the regulatory requirements of China, the United States, the European Union and other major countries and regions.



肠溶明胶空心胶囊溶出特性
Empty Enteric Gelatin Capsules dissolution performance






- We win the honor of first batch of national high-tech enterprises, Shandong Province manufacturing individual champion, Shandong Province advanced small and medium-sized enterprises, Shandong Province's first batch of digital economy "Morning Star Factory", Shandong Province specialized and new small and medium-sized enterprises, Qingdao private leading benchmark enterprises, Qingdao manufacturing small and medium-sized enterprises "Hidden Champion", the first batch of "Qingdao Excellent Products" and so on.

国家首批高新技术企业、山东省制造业单项冠军、山东省先进中小企业、山东省首批数字经济“晨星工厂”、山东省专精特新中小企业、青岛市民营领军标杆企业、青岛市制造业中小企业“隐形冠军”、第一批“青岛优品”等。

POSITION IN INDUSTRY 行业地位

As the chairman of the Empty Capsule Professional Committee of China National Pharmaceutical Packaging Association for 20 consecutive years, we have presided over the drafting of three industry standards, "Empty Gelatin Capsule" (YBX-2000-2007), "General Requirements for Empty Capsule" (T/CNPPA3006-2019), "Specifications, Size and Appearance Quality of Empty Capsule" (T/CNPPA3008-2020). We have made outstanding contributions to the standardization of industry standards and the healthy and sustainable development of the industry.


连续二十年担任中国医药包装协会空心胶囊专业委员会主任委员单位，主持起草《明胶空心胶囊》（YBX-2000-2007）、《空心胶囊通用要求》（T/CNPPA3006-2019）、《空心胶囊规格尺寸及外观质量》（T/CNPPA3008-2020）三项行业标准，为行业标准的规范化和行业健康持续发展作出了突出贡献。



YIQING BIOTECHNOLOGY 益青生物

PROFESSIONAL EMPTY CAPSULE
PRODUCTION BASE

空心胶囊专业生产基地





"We regard the production of each high-quality capsule as a contribution to the public health, and it is the eternal pursuit of the company to continuously meet the needs and expectations of customers."

"我们把生产每一粒优质胶囊都看作是对大众健康事业的贡献，不断满足顾客的需求和期望是公司永恒的追求。"

Qingdao Yiqing Biotechnology Co., Ltd. is now the holding subsidiary of Baotou Dongbao Bio-tech Co., Ltd. (a company listed on the GEM of Shenzhen Stock Exchange, Stock Code: 300239.SZ).

青岛益青生物科技股份有限公司是包头东宝生物技术股份有限公司（深交所创业板上市公司，300239.SZ）的控股子公司。

YIQING BIOTECHNOLOGY · 益青生物

Yiqing Biotechnology is one of the earliest backbone enterprises specializing in the production of fully automatic machine-made empty hard capsules in China, and is a pioneering enterprise in China's capsule manufacturing industry, with more than 40 years of empty capsule production experience. Yiqing Biotechnology now has Qingdao Empty Capsule Manufacturing Technology Innovation Center, Qingdao Empty Capsule Engineering Research Center, Shandong Province Enterprise Technology Center and other scientific research platforms. In 2024, the company has an annual output of 40 billion empty capsules. After all the intelligent industrialization series projects of new empty capsules are put into operation, the compa-

ny's annual production capacity can reach 80 billion capsules, becoming a professional empty capsule production base with the leading level of monomer production capacity, variety categories, and intelligence and digitalization.

益青生物是中国专业生产全自动机制空心硬胶囊的开拓企业，拥有近四十余年空心胶囊生产经验。现拥有青岛市空心胶囊制造技术创新中心、青岛市空心胶囊工程研究中心、山东省企业技术中心等科研平台。2024年具备年产优质空心胶囊400亿粒的能力。新型空心胶囊智能产业化系列项目全部投产后，公司年产能可达800亿粒以上，成为单体产能、品种门类、智能化、数字化程度均处于领先水平的空心胶囊专业生产基地。

40 40 years production experience
years 四十年生产经验

80 80 billion empty capsules
Billion 目标800亿粒

ID Intelligence and Digitalization
Yiqing 智能化和数字化

The main products include 4 series: Empty Gelatin Capsule, Empty Hypromellose Capsule, Empty Pullulan Capsule and Empty Enteric Gelatin Capsule.

主要产品包括明胶空心胶囊、羟丙甲纤维素空心胶囊、普鲁兰多糖空心胶囊、肠溶明胶空心胶囊四个系列。



In the future, Yiqing Biotechnology will be the industry leader, to start the next legend of health with you together!

未来，益青生物将以行业领航之姿，与您共启健康事业的下一个传奇！

CERTIFICATION · 资质

- We have passed ISO9001, ISO14001, ISO45001, NSF (National Sanitation Foundation), BRCGS (Global Standard for Food Safety), KOSHER, HALAL and a series of domestic and foreign authoritative certifications. And we have completed the registration and filing of a series of products with the National Medical Products Administration Center for Drug Evaluation (CFDA) and the United States Food and Drug Administration (US FDA).

通过ISO9001、ISO14001、ISO45001、美国NSF（National Sanitation Foundation，美国全国卫生基金会）、BRCGS（全球食品安全标准）、KOSHER、HALAL等一系列国内外权威认证，并相继完成了系列产品的中国国家药品监督管理局药品审评中心和美国食品药品监督管理局的登记和备案工作。

空心胶囊专业生产基地
PROFESSIONAL EMPTY CAPSULE
PRODUCTION BASE



囊括百草 康健百姓

Include All Kinds of Herbs to Improve People's Health

益青生物
YIQING
BIOTECHNOLOGY



青岛益青生物科技股份有限公司
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益青生物
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