

Note: Key data/information in this sample page is hidden, while in the report it is not.

## I Overview of functional oligosaccharide industry in China

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### I-2 History of functional oligosaccharide industry in China

In 1996, China started industrial production of IMO which is the first functional oligosaccharide product having been produced at a large-scale in China. The first production line with capacity of ■ t/a was set up in Baolingbao Biology Co., Ltd., and then in 1997 and 1998 respectively, FOS has been put into trial production and industrial production by Yunnan Jiansheng Biological Technology Co., Ltd. (former Yunnan Tianyuan Health Foods Co., Ltd.), After five years of development, China's functional oligosaccharide has formed a certain scale, and the marketed commodities include IMO, FOS, GOS, SBOS, stachyose and so on. In 2000, it was reported that the total output of China's functional oligosaccharide reached around ■ tonnes, with IMO as the product with the largest output.

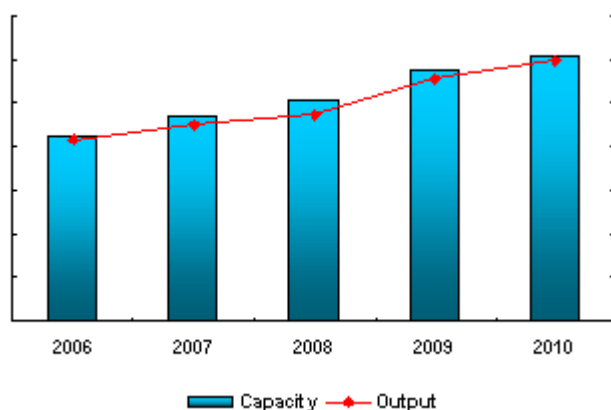
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### III-2 Isomalto-oligosaccharide (IMO)

#### III-2.1 Production

China's IMO industry has witnessed development of 20 years. China is a key IMO production base and consumption market around the world, experiencing a fast development history in past five years. Total capacity of IMO reaches around ■ t/a in 2010, with CAGR of ■% in the period of 2006 to 2010. Total IMO output jumps to ■ tonnes in 2010 in China.

Figure III-2.1.1 Production situation of IMO in China, 2006-2010

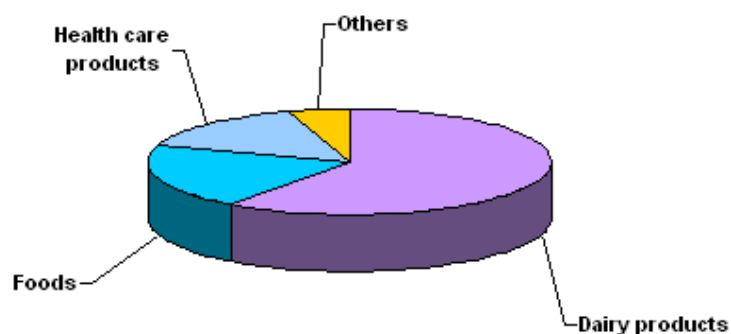


Source: CCM International

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### III-2.5 Application and demand

Figure III-2.5.1 Consumption proportion of IMO in major end use applications in China, 2010



Source: CCM International

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### III-3 Fructo-oligosaccharide

#### III-3.2 Manufacturer

Quantum High-Tech is the largest FOS enterprise and has big influence in FOS industry in China. Its output accounts for around █% of total FOS output in China in 2010. Shandong Baolingbao, the largest IMO enterprise in China, begins to engage in FOS production since 2011 with total FOS capacity of █t/a, in order to expand its share in China's oligosaccharide market.

Table III-3.2.2 Production information of FOS manufacturers in China, 2010-2011

No.	Manufacturer	Capacity, t/a		Output 2010, tonne							
		2011	2010	G50L	G55L	G50S	G55S	P90L	P95L	P90S	P95S
1	Quantum High-Tech	█	█	█	█	█	█	█	█	█	█
...	.....	█	█	█	█	█	█	█	█	█	█
12	Guangzhou Hisoya	█	█	█	█	█	█	█	█	█	█
13	Qinghai Wede	█	█	█	█	█	█	█	█	█	█
<b>Total</b>	/	█	█	█	█	█	█	█	█	█	█

Source: CCM International