

I-2 Situation of Mannitol Nowadays

I-2.1 Summary of Producers

Currently there are 11 active mannitol producers in China of whom 6 ones adopted traditional method, 4 of them adopted synthetic method, and Qingdao Brightmoon adopted both traditional method and synthetic method.

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Table I-2.1-2 Summary of mannitol producers in the past years -2

| No. | Abbr. | Method 07 | Material 07 | GMP | Cap. '07 (t/a) | Prod. '06 (tonnes) | Exp. '06 |
|---------|------------------|-------------|-------------|-----|----------------|--------------------|--------------|
| II-1.1 | | | | | | | |
| II-1.2 | | | | | | | |
| II-1.3 | | | | | | | |
| II-1.4 | | | | | | | |
| II-1.5 | | | | | | | |
| II-1.6 | | | | | | | |
| II-1.7 | | | | | | | |
| II-1.8 | | | | | | | |
| II-1.9 | | | | | | | |
| II-1.10 | | | | | | | |
| II-1.11 | | | | | | | |
| II-2.1 | | | | | | | |
| II-2.2 | | | | | | | |
| II-2.3 | | | | | | | |
| II-2.4 | Yucheng Lvjian | Synthetic | Glucose | Yes | - | 200 | - |
| II-2.5 | Jinzhou Tianyuan | Traditional | Seaweed | No | - | 200 | 14.250 |
| | Total | - | - | - | 22,250 | 8,600 | 2,276 |

I-4 Import & Export Analysis of Mannitol in China in the past five years

The mannitol has been regarded as a relatively stable product in China, from consideration of import & export. The data in the past shows that the import quantity has been increasing from 1999 to 2005, and it decreased to 413 tonnes in 2006.

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Table I-4-1 Import & export of mannitol in the past few years

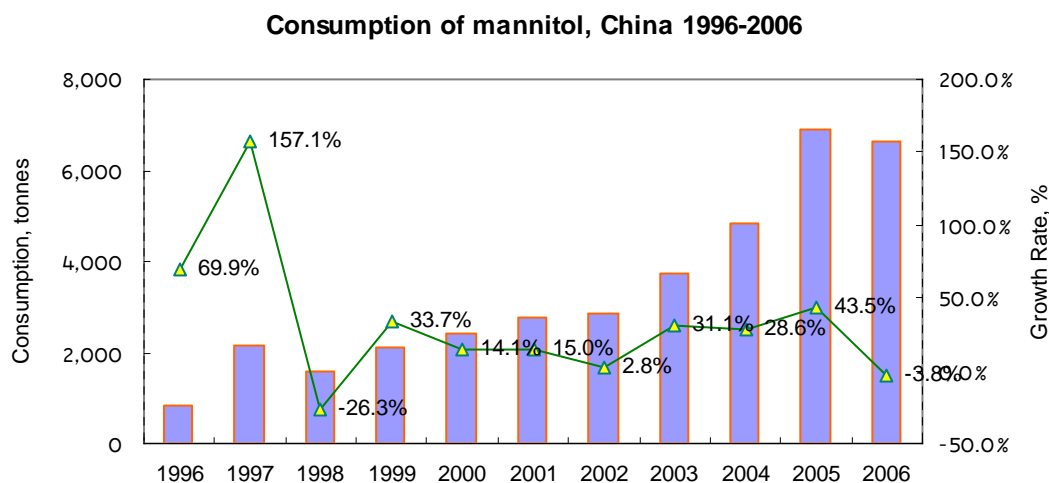
| Year | Import volume (tonnes) | Price (USD/kg) | Export volume (tonnes) | Price (USD/kg) |
|------|------------------------|----------------|------------------------|----------------|
| 1997 | 508.657 | 2.02 | 242.300 | 4.92 |
| 1998 | 101.213 | 2.57 | 519.221 | 2.52 |
| 1999 | 58.086 | 4.12 | 697.395 | 1.67 |
| 2000 | 261.248 | 1.77 | 1,122.000 | 1.39 |
| 2001 | 421.871 | 3.33 | 1,515.250 | 1.23 |
| 2002 | 346.935 | 3.62 | 1,872.419 | 1.22 |
| 2003 | 532.610 | 2.29 | 1,382.658 | 2.10 |
| █ | █ | █ | █ | █ |
| █ | █ | █ | █ | █ |
| █ | █ | █ | █ | █ |

I-5 Consumption Pattern of Mannitol in China

In China the consumption scope of mannitol is rather narrow. Most of the mannitol is used in pharmaceutical injections, which accounts for over 70% of total mannitol consumption in China. Only a small proportion is used in tablets, even less in food and other industries.

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Figure I-5-1 Consumption of mannitol in China, 1996-2006



I-5.1 Market Size and Market Share of Mannitol in Major End Use Segments

Figure I-5.1-1 Consumption pattern of mannitol in China in 2006

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