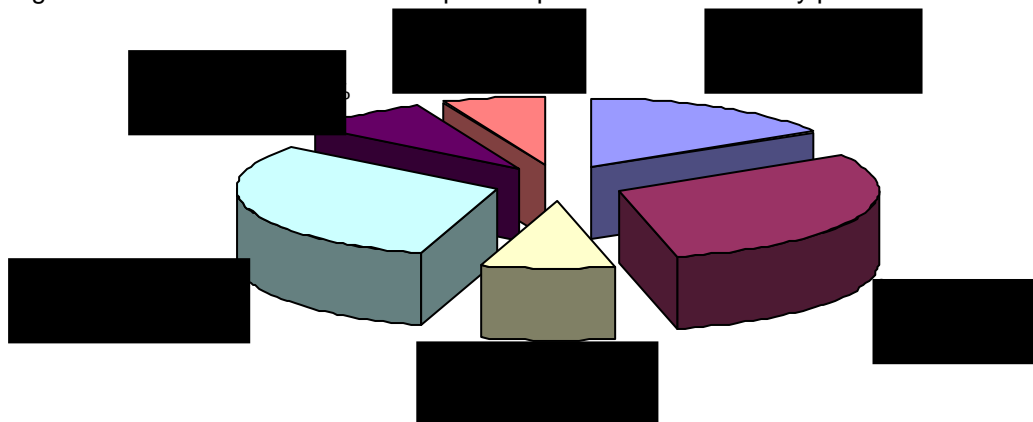


**Note: Key data/information in this sample page is hidden, while in the report it is not.**

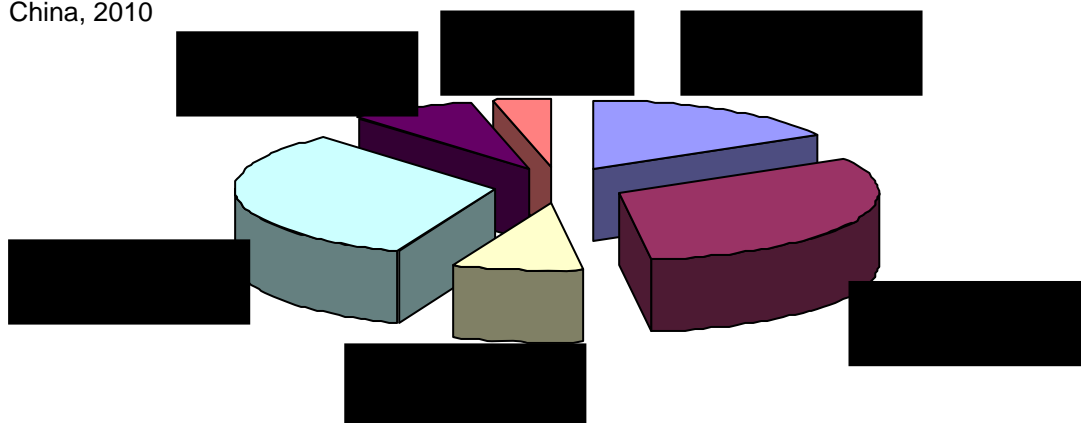
## 2 Overview of bromides in pharmaceutical industry

Figure 2-1 Share of bromine consumption in pharmaceutical field by product in China



Source: CCM International

Figure 2-2 Estimation for share of bromine consumption in pharmaceutical field by product in China, 2010



Source: CCM International

## 3 Main applications in pharmaceutical

### 3.1 Dibromo aldehyde

#### 3.1.1 Status of dibromo aldehyde production in China

From 2007 to 2009, output of dibromo aldehyde keeps relatively stable, and bromine consumption keeps stably low, ranging from XX tonnes to XX tonnes. Since domestic demand for TMP is limited and it is difficult for China's producers to compete with Indian producers in the international markets, domestic output of dibromo aldehyde would still keep relatively low in the short term.

Table 3.1.1-1 Status of dibromo aldehyde production in China, 2007-2010

Year	Capacity, t/a	Output, tonne	Bromine consumption, tonne
2007	XX	XX	XX
2008	XX	4,850	XX
2009	7,800	XX	XX
2010E	XX	XX	XX

Source: CCM International

### 3.1.2 Main producers of dibromo aldehyde in China

Table 3.1.2-1 Main producers of dibromo aldehyde in China, 2010

No.	Producer	Abbreviation	Capacity' 10, t/a	Output'09, tonne	Quotation, USD/t
1	Shandong XX Pharmaceutical Co., Ltd.	Shandong XX	XX	XX	N/A
2	Shandong XX Industry Group Co., Ltd.	Shandong XX	4,000	XX	XX
3	Shandong XX Pharmaceutical Co., Ltd.	Shandong XX	XX	XX	N/A

Note: the quotations of bromine were given during 28th Oct. and 3rd Nov.

Source: CCM International

## 3.2 Chloramphenicol

### 3.2.1 Status of chloramphenicol production in China

Demand for chloramphenicol decreased quickly since 2000, but it keeps relatively stable during 2007 to 2010. Chloramphenicol is still one of the largest bromine consuming sectors in China; its bromine consumption keeps ranging from XX tonnes to XX tonnes from 2007 to 2010.

Table 3.2.1-1 Status of chloramphenicol production in China, 2007-2010

Year	Capacity, t/a	Output, tonne	Bromine consumption, tonne
2007	XX	XX	XX
2008	XX	XX	XX
2009	XX	XX	XX
2010E	XX	XX	XX

Source: CCM International

### 3.2.2 Main producers of chloramphenicol in China

There were more than 10,000 producers in the early 1990s in China. Many producers had to stop chloramphenicol production at the end of last century because of the environment pollution in the process of producing chloramphenicol, limited bromine resource and weak demand; there are just 3 producers in China now. They are:

- XX Pharmaceutical Group Co., Ltd.
- XXc Pharmaceutical Co., Ltd.
- Jiangsu Nanjing XX Pharmaceutical Co., Ltd.

XX and XX are two listed companies in China.

Table 3.2.2-1 Main producers of chloramphenicol in China, 2010

No.	Producer	Abbreviation	Capacity'10, t/a	Output'09, tonne	Quotation, USD/t
1	Northeast XXI Group Co., Ltd.	XX	700	XX	XX
2	Southwest XX Pharmaceutical Co., Ltd.	XX	XX	XX	XX
3	Jiangsu Nanjing XX Pharmaceutical Co., Ltd.	Jiangsu XX	XX	XX	XX

*Note: the quotations were given during 28th Oct. and 3rd Nov.*

*Source: CCM International*

### 3.3 Amantadine hydrochloride

#### 3.3.1 Status of amantadine hydrochloride production in China

During 2007 to 2009, the output of amantadine hydrochloride maintains an increasing trend. But restricted by the limited bromine resource in China, the producers have to reduce their output in 2010. Since the domestic demand still keeps relatively stable and the overseas demand is increasing gradually, some producers have increased their production capacity in 2010.

Table 3.3.1-1 Status of amantadine hydrochloride production in China, 2007-2010

Year	Capacity, t/a	Output, tonne	Bromine consumption, tonne
2007	XX	XX	XX
2008	XX	XX	XX
2009	XX	1,350	XX
2010E	XX	XX	1,100

*Source: CCM International*