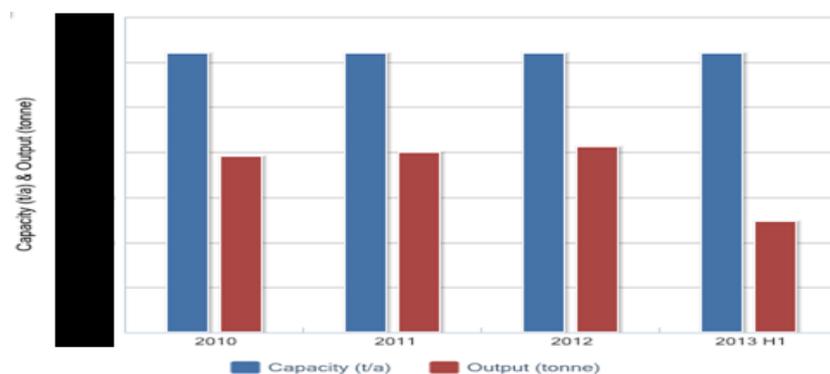


Note: Key data/information in this sample page is hidden, while in the report it is not.

3 L-Tyrosine production situation in China

3.1 Production 2010-H1 2013

Figure 3.1-1 Capacity and output of L-tyrosine in China, 2010-H1 2013



Note: The output of L-tyrosine is calculated as the amount of L-tyrosine used to produce L-tyrosine derivatives by those L-tyrosine producers.

Source: CCM

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3.1.1 Current top three producers' situation

Table 3.1.1-4 Production situation of top three producers of N-acetyl-L-tyrosine in China, 2010-H1 2013

No.	Company					Output, tonne			
		H1 2013	2012	2011	2010	H1 2013	2012	2011	2010
1	Wuhan Grand Hoyo	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx
2	Ningbo Haide	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx
3	Ningbo Haishuo	xxx	xxx	xxx	300	xxx	xxx	xxx	xxx

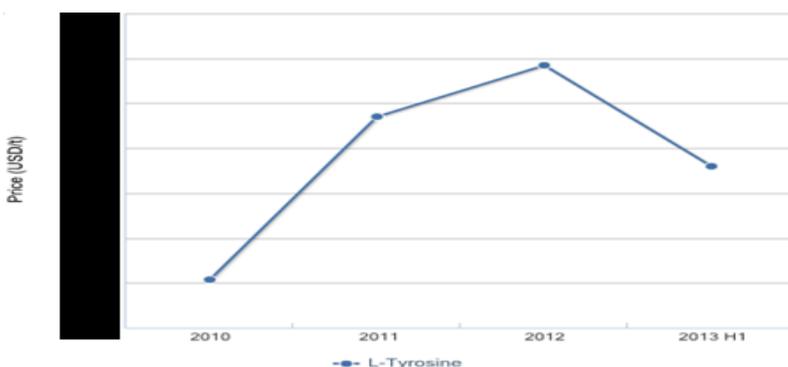
Source: CCM

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4 Market situation of L-tyrosine in China

4.1.1 L-Tyrosine market price trend, 2008-H1 2013

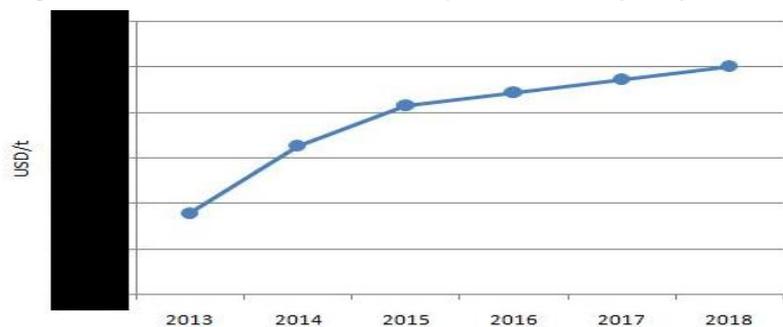
Figure 4.1.1-1 Market price of L-tyrosine in China, 2010-H1 2013



Source: CCM

4.1.2 Forecast on L-tyrosine price, 2014-2018

Figure 4.1.2.3-2 Forecast on market price of N-acetyl-L-tyrosine in China, 2013-2018

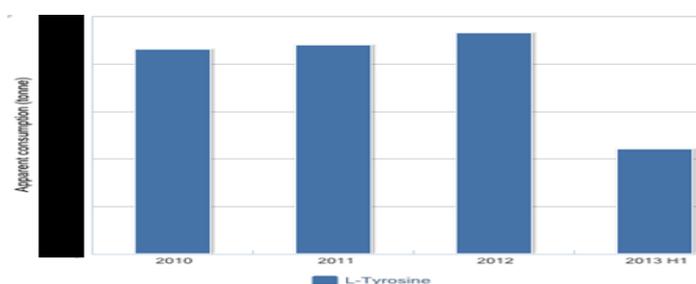


Source: CCM

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4.2.1 Development of L-tyrosine consumption in China

Figure 4.2.1-1 Apparent consumption of L-tyrosine in China, 2010-H1 2013



Source: CCM

...

4.2.3 Brief introduction of major consumption fields, 2012

Table 4.2.3-1 Selected end users of L-tyrosine in China

No.	End user		
1	xxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxx	L-Tyrosine and N-acetyl-L-tyrosine
2	xxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxx	L-Tyrosine and N-acetyl-L-tyrosine
3	xxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxx	L-Tyrosine
4	xxxxxxxxxxxxxxxxxxxxxx	Milk powder	L-Tyrosine
5	Germany Merck Co., Ltd.		L-Tyrosine and its derivatives

Source: CCM

5 Technology introduction

5.2 Emerging technology

In the past, China's hydrolysis amino acid producers separated amino acids in hydrolysis liquid through precipitation. Meanwhile, some producers tried electrodialysis in the production of hydrolysis to separate amino acids (such as L-arginine, L-leucine, L-tyrosine, etc.) in hydrolysis liquid.

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