

Production of Erythritol in China 2019–2021

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Basic info of erythritol producers

Chinese name	English name	Abbreviation	Location
山东三元生物科技股份有限公司	Shandong Sanyuan Biotechnology Co., Ltd.	Shandong Sanyuan	Shandong
保龄宝生物股份有限公司	Baolingbao Biology Co., Ltd.	Baolingbao Biology	Shandong
诸城东晓生物科技有限公司	Zhucheng Dongxiao Biotechnology Co., Ltd.	Zhucheng Dongxiao	Shandong
河北玉星生物工程股份有限公司	Hebei Yuxing Bio-Engineering Co., Ltd.	Hebei Yuxing	Hebei
山东福洋生物科技股份有限公司&德州和洋生物科技有限公司	Shandong Fuyang Biotechnology Co., Ltd. & Dezhou Heyang Biotechnology Co., Ltd.	Shandong Fuyang & Dezhou Heyang	Shandong
山东茌平春蕊生物食品有限公司	Shandong Chiping Chunrui Bio-Food Co., Ltd.	Chiping Chunrui	Shandong
安徽丰原利康制药有限公司	Anhui BBKA Likang Pharmaceutical Co., Ltd.	BBKA Likang	Anhui
淄博中食歌瑞生物技术有限公司	Zibo Zhongshi Green Biotech Co., Ltd.	Zhongshi Green	Shandong
山东福田药业有限公司	Shandong Futaste Pharmaceutical Co., Ltd.	Shandong Futaste	Shandong
四川安益生物科技有限公司	Sichuan Anyi Biotechnology Co., Ltd.	Sichuan Anyi	Sichuan
滨州中裕食品有限公司	Binzhou Zhongyu Food Co., Ltd.	Binzhou Zhongyu	Shandong
浙江华康药业股份有限公司	Zhejiang Huakang Pharmaceutical Co., Ltd.	Zhejiang Huakang	Zhejiang
吉林嘉奥生物科技有限公司	Jilin Jiaao Biotechnology Co., Ltd.	Jilin Jiaao	Jilin
湖北海宜生物科技有限公司	Hubei Hiyeer Biotechnology Co., Ltd.	Hubei Hiyeer	Hubei
日照朴里生物科技有限公司	Rizhao Puli Biotechnology Co., Ltd.	Rizhao Puli	Shandong
安阳市豫鑫木糖醇科技有限公司	Anyang Yuxin Xylitol Co., Ltd.	Anyang Yuxin	Henan
鄂尔多斯市中轩生化股份有限公司	Deosen Biochemical (Ordos) Ltd.	Ordos Deosen	Inner Mongolia
山东乾肽生物科技有限公司	Shandong Qiantai Biotechnology Co., Ltd.	Shandong Qiantai	Shandong
山东星光首创生物科技有限公司	Shandong Starlight So True Biological Technology Co., Ltd.	Starlight So True	Shandong
宁夏伊品生物科技股份有限公司	Ningxia EPPEN Biotech Co., Ltd.	Ningxia EPPEN	Ningxia
山东香驰健源生物科技有限公司	Shandong Xiangchi Jianyuan Biotechnology Co., Ltd.	Xiangchi Jianyuan	Shandong
安徽省斯拜科新材料有限公司	Anhui Spec New Materials Co., Ltd.	Anhui Spec	Anhui
黑龙江龙凤玉米开发有限公司	Heilongjiang Longfeng Corn Development Co., Ltd.	Heilongjiang Longfeng	Heilongjiang
金河生物科技股份有限公司	Jinhe Biotechnology Co., Ltd.	Jinhe Biotechnology	Inner Mongolia
滁州瑞芬生物科技有限公司	Chuzhou Refine Biology Co., Ltd.	Chuzhou Refine	Anhui
肇庆焕发生物科技有限公司	Zhaoqing Huanfa Biotechnology Co., Ltd.	Zhaoqing Huanfa	Guangdong

1 Summary of erythritol production

Table 1-1 Capacity and output of erythritol producers in China, 2019–2021

No.	Abbreviation	Capacity, t/a			Output, tonne			Operating rate 2021
		2021	2020	2019	2021	2020	2019	
1	Shandong Sanyuan	85,000	65,000	50,000	75,000	49,000	26,600	88.20%
2	Baolingbao Biology	33,000	20,000	10,000	25,000	15,000	9,800	75.8%
3	Zhucheng Dongxiao	30,000	30,000	10,000	27,000	16,000	9,000	90.0%
4	Hebei Yuxing	40,000	0	0	4,000	/	/	10.0%
5	Shandong Fuyang	20,000	0	0	3,000	/	/	15.0%
6	Chiping Chunrui	20,000	0	0	2,000	/	/	10.0%
7	BBCA Likang	30,000	0	0	/	/	/	/
8	Zhongshi Green	4,500	4,500	4,500	0	0	500	/
9	Shandong Futaste	3,000	3,000	3,000	0	0	700	/
10	Sichuan Anyi	10,000	10,000	10,000	0	0	0	/
Total		275,500	132,500	87,500	136,000	80,000	46,600	49.4%

Source: CCM

China's erythritol industry has developed fast, relying on the fast development of downstream industries/rapidly growing demand, industrial advantage of domestic corn deep-processing, as well as improvements in product quality and cost performance.

The national production capacity of erythritol has increased from less than 50,000 t/a before 2018 to 275,500 t/a in 2021 with total output of erythritol ramping up from 46,600 tonnes in 2019 to 136,000 tonnes in 2021.

2 Key manufacturers' production information

Shandong Sanyuan expanded its erythritol capacity from 10,000 t/a in 2017 to 30,000 t/a in 2018, 50,000 t/a in 2019, 65,000 t/a in 2020 and 85,000 t/a in 2021. Also it proposed a 50,000 t/a erythritol and technology center project on a three-phase construction schedule (1st phase: 20,000 t/a erythritol and technology center with construction period of 24 months; 2nd phase: 20,000 t/a erythritol with construction period of 12 months; 3rd phase: 10,000 t/a erythritol with construction period of 12 months).

Link to the expansion project:

<http://www.cninfo.com.cn/new/disclosure/detail?plate=szse&orgId=gqtg0100131&stockCode=301206&announcementId=1212298773&announcementTime=2022-01-28>

Baolingbao Biology expanded its erythritol capacity from 4,000 t/a to 10,000 t/a in 2017, 20,000 t/a in 2020, and 33,000 t/a in 2021. Its 30,000 t/a erythritol expansion project was approved in Oct. 2021.

Link to the expansion project:

<http://www.yuchengshi.gov.cn/n54811230/n54811404/n54811638/n54811640/n54811654/c65142764/content.html>

Zhucheng Dongxiao had the 20,000 t/a erythritol expansion project put into trial production in June 2020. Two of its 30,000 t/a erythritol expansion project were approved in Dec. 2021.

Links to the expansion projects:

<http://61.133.99.71:3000/zcy/artypz?id=163531930886352510720>

<http://61.133.99.71:3000/zcy/artypz?id=163591204371918272256>

Hebei Yuxing put the 40,000 t/a erythritol project into trail production in Aug. 2021. In Nov. 2021, this company publicised the EIA of an 160,000 t/a erythritol project which will be divided into three phases (1st phase: 40,000 t/a erythritol with construction period of 12 months; 2nd phase: 40,000 t/a erythritol with construction period of 14 months; 3rd phase: 80,000 t/a erythritol with construction period of 15 months).

Links to the expansion project:

<http://www.yufengholding.cn/news/40.html>

<http://www.yufengholding.cn/news/47.html>

Shandong Fuyang, capable of 20,000 t/a erythritol was listed in Aug. 2021. Dezhou Heyang, one of its subsidiaries, also proposed a high-class starch and further processing project (800,000 t/a corn starch, 100,000 t/a maltose syrup, 20,000 t/a erythritol, etc.) with corn processing capacity of 1,000,000 t/a, which is under construction and expected to be completed by 2022.

Link to the expansion project:

<http://m.dezhoudaily.com/pyjj/p/1554404.html>

Chiping Chunrui had 20,000 t/a erythritol project entered operation in Aug.

BBCA Likang completed construction of 30,000 t/a erythritol and 5,000 t/a glutamine project in Oct. 2021, but it has not yet meet the formal production condition as of Jan. 2022.

Zhongshi Green has 4,500 t/a erythritol installment. Its output of erythritol kept decreasing over the past few years because of environmental protection issues and fierce market competition.

Shandong Futaste owns production equipment with up to 3,000 t/a capacity of erythritol but with rare output and purchases erythritol from Shandong Sanyuan these years.

Sichuan Anyi has a 10,000 t/a erythritol project started commercial production in 2015. The company has adjusted its main business and produced quite a small number of erythritol to order annually since 2018.

3 Forecast on erythritol production in China

With the continuous improvement of living conditions, public consumption has turned to “lows in sugar, salt, oil and fat”. Erythritol, being as a low-carb sugar substitute, can be applied in a wide food range of table sugars, seasoning sugars, dietary supplements and sugar-free/low-sugar beverages, dairy products and ice creams, etc. These suggest that erythritol would enter a stage of rapid development in China and for the rest of world.

In 2022–2025, a total capacity of about 706,500 t/a erythritol will be built up and released, if all these potential projects are processing well as scheduled.

Table 3-1 Erythritol capacity forecast to 2025

No.	Abbr.	Capacity, t/a						
		2019	2020	2021E	2022E	2023E	2024E	2025E
1	Shandong Sanyuan	50,000	65,000	85,000	105,000	125,000	135,000	135,000
2	Baolingbao Biology	10,000	20,000	33,000	33,000	63,000	63,000	63,000
3	Zhucheng Dongxiao	10,000	30,000	30,000	90,000	90,000	90,000	90,000
4	Hebei Yuxing	/	/	40,000	40,000	80,000	160,000	160,000
5	Shandong Fuyang & Dezhou Heyang	/	/	20,000	40,000	40,000	40,000	40,000
6	Chiping Chunrui	/	/	20,000	20,000	20,000	20,000	20,000
7	BBCA Likang	/	/	30,000	30,000	30,000	30,000	30,000
8	Zhongshi Green	4,500	4,500	4,500	4,500	4,500	4,500	4,500
9	Shandong Futaste	3,000	3,000	3,000	3,000	3,000	3,000	3,000
10	Sichuan Anyi	10,000	10,000	10,000	10,000	10,000	10,000	10,000
11	Binzhou Zhongyu	/	/	/	20,000	40,000	40,000	40,000
12	Zhejiang Huakang	/	/	/	30,000	30,000	30,000	30,000
13	Jilin Jiaao	/	/	/	40,000	40,000	40,000	40,000
14	Hubei Hiye	/	/	/	/	4,000	4,000	4,000
15	Rizhao Puli	/	/	/	/	/	100,000	100,000
16	Anyang Yuxin	/	/	/	20,000	20,000	20,000	20,000
17	Ordos Deosen	/	/	/	/	40,000	40,000	40,000
18	Shandong Qiantai	/	/	/	/	500	500	500
19	Starlight So True	/	/	/	30,000	30,000	30,000	30,000
20	Ningxia EPPEN	/	/	/	20,000	20,000	20,000	20,000
21	Xiangchi Jianyuan	/	/	/	/	20,000	20,000	20,000
22	Anhui Spec	/	/	/	/	2,000	2,000	2,000
23	Heilongjiang Longfeng	/	/	/	/	20,000	20,000	20,000
24	Jinhe Biotechnology	/	/	/	/	/	15,000	15,000
25	Chuzhou Refine	/	/	/	/	15,000	15,000	15,000
26	Zhaoqing Huanfa	/	/	/	/	30,000	30,000	30,000
Total		87,500	132,500	275,500	535,500	777,000	982,000	982,000

Source: CCM

Binzhou Zhongyu's 20,000 t/a erythritol project will be put into trial production after Chinese Spring Festival 2022.

Link to the expansion project:

<http://bincheng.gov.cn/zfxgk/news/html/?10000000242431.html>

Zhejiang Huakang proposed a 30,000 t/a erythritol project in May 2021, and expects the project to enter production in May 2022.

Link to the expansion project:

<https://q.stock.sohu.com/newpdf/202144582300.pdf>

Jilin Jiaao proposed a 40,000 t/a erythritol project in March 2021, which is planned to be built up in 2022.

Links to the expansion project:

http://sthj.jl.gov.cn/ywgg/hpslgs/202103/t20210305_427157.html

http://sthj.jl.gov.cn/ywgg/hjyxpj/hpspjg/202103/t20210321_427146.html

Hubei Hiyee disclosed plan to transform its yeast production line into 4,000 t/a erythritol production one in April 2020.

Link to the expansion project: N/A

Rizhao Puli proposed a 100,000 t/a erythritol project in Dec. 2020, which is planned to be built up in Dec. 2023.

Link to the expansion project:

<http://www.juxian.gov.cn/module/download/downfile.jsp?classid=0&filename=42c00f4321b54817b105ecc77bd8d392.pdf>

Anyang Yuxin's EIA of 20,000 t/a erythritol project was approved in June 2021.

Link to the expansion project:

http://www.tangyin.gov.cn/sitesources/tyweb/page_pc/zwgk/zdlygk/hjbh/xzxc/article0d17de806e1f4c2e8086ef39a84f11a1.html

Ordos Deosen publicised the EIA of its 40,000 t/a erythritol in July 2021.

Link to the expansion project:

<https://www.ep-home.cn/thread-1746-1-1.html>

Shandong Qiantai proposed a 500 t/a erythritol project in July 2021.

Link to the expansion project:

http://jnepb.jinan.gov.cn/art/2021/7/20/art_32961_4770474.html

Starlight So True proposed a 30,000 t/a erythritol project in Aug. 2021.

Link to the expansion project:

<http://www.sdxgty.com/news/1034.html>

Ningxia EPPEN's EIA of 20,000 t/a erythritol project was approved in Dec. 2021.

Link to the expansion project:

http://nxyn.gov.cn/zwgk/gkbn/ynxspj/xxgkmmn/xmhjyxpqxx_23195/202112/t20211223_3249255.html

Xiangchi Jianyuan publicised the revised EIA report of its 20,000 t/a erythritol project in Sept. 2021.

Link to the expansion project:

http://www.boxing.gov.cn/art/2021/12/23/art_117915_10505431.html

Anhui Spec's EIA of 500 t/a erythritol project was first publicised in Jan. 2022.

Link to the expansion project:

<https://scp.chuzhou.gov.cn/xwdt/tzgg/1104222395.html>

Heilongjiang Longfeng publicised the EIA of 20,000 t/a erythritol project before the approval Jan. 2022.

Link to the expansion project:

<http://www.suihua.gov.cn/pages/website/listOtherDetail.html?id=35130&parentId=1572&active=9283,1572,35130>

Jinhe Biotechnology's EIA of 15,000 t/a erythritol project was approved in Jan. 2022.

Link to the expansion project:

<http://nmg.tzxm.gov.cn/indexlink/bagzs/20220113154148027814.jsp>

Chuzhou Refine's EIA report of 15,000 t/a erythritol project was publicised in Jan. 2022.

Link to the expansion project:

<http://sthjj.chuzhou.gov.cn/hjgk/hpsp/slgs/1104224203.html>

Zhaoqing Huanfa proposed a 30,000 t/a erythritol project in Jan. 2022.

Link to the expansion project:

<http://www.hfbio.com/cn/news-posts/%e5%b9%b4%e4%ba%a73%e4%b8%87%e5%90%a8%e5%8a%9f%e8%83%bd%e6%80%a7%e6%97%a0%e7%b3%96%e9%a3%9f%e5%93%81%e5%8e%9f%e6%96%99%e8%b5%a4%e8%97%93%e7%b3%96%e9%86%87%e3%80%811%e4%b8%87%e5%90%a8%e8%8d%af%e7%94%a8/>

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