

# Global (North America, Europe, Asia-Pacific, South America, Middle East and Africa) Microbial Fermentation APIs Market 2018, Forecast to 2023

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## Abstracts

Active pharmaceutical ingredients or APIs can be defined as the chemicals used to manufacture pharmaceutical drugs. They are generally manufactured through a variety of processes that include chemical synthesis, fermentation processes, recombinant DNA, etc.

Microbial fermentation APIs are secondary metabolites produced by micro-organisms such as fungi and actinomycetes. The micro-organisms are capable of converting inexpensive carbon sources (starch, glucose, sucrose, etc.) and nitrogen sources (soybean flour, cotton-seed flour, peptone, etc.) into highly valuable API's or key intermediates (such as amino acids, vitamins, antibiotics) in liquid or solid media under certain growth conditions (nutrients, temperature, PH, oxygen supply).

Microorganisms that are typically used within the pharmaceutical industry include: prokaryotes such as Bacteria (e.g. *Escherichia coli*, *Staphylococcus aureus*) and Streptomycetes (e.g. *Streptomyces* spp, *Actinomyces* spp), eukaryotes such as Filamentous Fungi (e.g., *Nigrospora* spp, *Aspergillus* spp,) and Yeast (e.g. *Saccharomyces cerevisiae*, *Pichia pastoris*).

## SCOPE OF THE REPORT:

This report focuses on the Microbial Fermentation APIs in global market, especially in North America, Europe and Asia-Pacific, South America, Middle East and Africa. This report categorizes the market based on manufacturers, regions, type and application. With developed pharmaceuticals industry, Europe, USA and Japan are the major consumption markets of microbial fermentation APIs. These international pharmaceuticals giants generally purchase APIs from Asia, especially China and India. China is the emerging consumption market of microbial fermentation APIs and it is also

the largest supplier. In the market of antibiotics and vitamin, China have occupied market share of more than half. With foreign based plants and local manufacturers, India is another major supplier of APIs.

Antibiotics enjoyed the largest market share of microbial fermentation APIs, and China is the largest supplier with production of about 150 K MT. Amino acids are another important parts of microbial fermentation APIs market. Among these amino acids, the amount of glutamic acid and l-lysine are at most.

The worldwide market for Microbial Fermentation APIs is expected to grow at a CAGR of roughly 1.8% over the next five years, will reach 30800 million US\$ in 2023, from 27700 million US\$ in 2017, according to a new GIR (Global Info Research) study.

Market Segment by Manufacturers, this report covers

Merck

Ajinomoto

HGPF

Huaxing

North China Pharmaceutical

Topfond

DSM

Tianyao

CSPC Pharma

Northeast Pharm

Lukang Pharmaceutical

Luwei Pharmaceutical

Jiangshan (DSM)

## Market Segment by Regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia and Italy)

Asia-Pacific (China, Japan, Korea, India and Southeast Asia)

South America (Brazil, Argentina, Colombia etc.)

Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria and South Africa)

## Market Segment by Type, covers

Antibiotics

Amino acids

Vitamin

Nucleotide

Organic acid

Alcohol

Biological products

Hormone

## Market Segment by Applications, can be divided into

Hospitals

Research & Academic Laboratories

## Pharmaceutical & Biotechnology Companies

There are 15 Chapters to deeply display the global Microbial Fermentation APIs market.

Chapter 1, to describe Microbial Fermentation APIs Introduction, product scope, market overview, market opportunities, market risk, market driving force;

Chapter 2, to analyze the top manufacturers of Microbial Fermentation APIs, with sales, revenue, and price of Microbial Fermentation APIs, in 2016 and 2017;

Chapter 3, to display the competitive situation among the top manufacturers, with sales, revenue and market share in 2016 and 2017;

Chapter 4, to show the global market by regions, with sales, revenue and market share of Microbial Fermentation APIs, for each region, from 2013 to 2018;

Chapter 5, 6, 7, 8 and 9, to analyze the market by countries, by type, by application and by manufacturers, with sales, revenue and market share by key countries in these regions;

Chapter 10 and 11, to show the market by type and application, with sales market share and growth rate by type, application, from 2013 to 2018;

Chapter 12, Microbial Fermentation APIs market forecast, by regions, type and application, with sales and revenue, from 2018 to 2023;

Chapter 13, 14 and 15, to describe Microbial Fermentation APIs sales channel, distributors, traders, dealers, Research Findings and Conclusion, appendix and data source

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