

Fermentation Products Market by Type (Alcohols, Amino Acids, Organic Acids, Biogas, Polymers, Vitamins, Antibiotics, and Industrial Enzymes), Feedstock (Corn, Rice, Wheat, Sugar Cane, Cassava, Barley, Potatoes, Sorghum, Sugar Beet, & Tubers), Process (Batch Fermentation, Continuous Fermentation), and End-user Industry (Food & Beverages; Pharmaceutical; Agriculture; Personal Care; Animal Feed; Textile & Leather) - Global Opportunity Analysis and Industry Forecast, 2017-2023

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Abstracts

The global fermentation products market was valued at \$149,469 million in 2016, and is expected to grow at a CAGR of 4.7% from 2017 to 2023, to reach \$205,465 million by 2023. Industrial fermentation is a multi-step process that converts starches, sugar, and cellulosic material into feed, fuel, food, and other industrial products. This process employs microorganisms, such as yeasts & algae, or enzymes and usually takes place in fermenters or bioreactors.

Fermentation products are used as active ingredients in production of green bio-based products in numerous end-user industries. These products increase shelf life and add aroma & flavor to various food products. Continuous fermentation, batch fermentation, and anaerobic fermentation are used to manufacture fermentation products, depending upon the characteristics of the final product. Key manufacturers focus on R&D activities to expand their existing product portfolio, which promotes product differentiation. The fermentation products industry is also expected to witness an increase in acquisitions,

mergers, and strategic alliances in the near future.

Ecological concerns, growth of the global bioethanol industry, and increase in demand for antibiotics drive the fermentation products market. In addition, rise in use of fermentation products as raw materials in plastic, textile, leather, rubber, and chemical industries and increase in awareness among consumers about benefits of bio-based products fuel the market growth. Irregular supply of raw materials, such as microorganisms & nutrients, to manufacture fermentation products, stringent government regulations, and high production costs hinder market growth. Moreover, economic viability of fermentation-based chemical industry is dependent on the price levels of substitute feedstocks and comparative product yields. However, increase in demand for fermentation products in emerging economies, such as India, China, and Brazil, and expanding applications and technological innovations in this field present as major opportunities for growth.

The fermentation products market is segmented based on type, feedstock, process, end-user industry, and geography. Based on type, it is classified into alcohols, amino acids, organic acids, biogas, polymers, vitamins, antibiotics, and industrial enzymes. The feedstock segment includes corn, rice, wheat, sugarcane, cassava, barley, potatoes, sorghum, sugar beet, other coarse grains, and other roots & tubers. Other coarse grains include oats, millet, triticale, buckwheat, rye, canary seed, fonio, and quinoa. Other roots & tubers comprise yams, sweet potatoes, yautia and taro. Based on process, the market is classified into batch fermentation, continuous fermentation, and others (aerobic and anaerobic fermentation). Fermentation products are used by various end-user industries such as food & beverages; pharmaceutical; agriculture; personal care; animal feed; textile & leather; and others (paper, bioremediation, environment, and biochemistry). Geographically, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Major players operating in this market include the following:

AB Enzymes GmbH

Ajinomoto Company Incorporation

Amano Enzyme Inc.

BASF SE

Chr. Hansen A/S

Du Pont Danisco A/S

Evonik Industries AG

Lonza Group Ltd.

Novozymes A/S

The Dow Chemical Company

KEY BENEFITS FOR STAKEHOLDERS

This report provides a quantitative analysis of the current trends and estimations from 2017 to 2023 of fermentation products market to identify the prevailing market opportunities.

Major countries in each region are mapped according to individual market revenue.

Comprehensive analysis of factors that drive and restrict the growth of the market is provided.

An in-depth analysis of current research and clinical developments within the market is provided with key dynamic factors that highlight the market behavior.

Leading players and their key developments in the recent years are listed.

KEY MARKET SEGMENTS

By Type

Alcohols

Amino Acids

Organic Acids

Biogas

Polymers

Vitamins

Antibiotics

Industrial Enzymes

By Feedstock

Corn

Rice

Wheat

Sugarcane

Cassava

Barley

Potatoes

Sorghum

Sugar Beet

Other Coarse Grains (Oats, Millet, Triticale, Buckwheat, Rye, Canary Seed, Fonio, and Quinoa)

Other Roots & Tubers (Yams, Sweet Potatoes, Yautia, and Taro)

By Process

Batch Fermentation

Continuous Fermentation

Others (Aerobic and Anaerobic Fermentation)

By End-user Industry

Food & Beverages

Pharmaceutical

Agriculture

Personal Care

Animal Feed

Textile & Leather

Others (Paper, Bioremediation, Environment, and Biochemistry)

By Geography

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia-Pacific

China

Japan

India

Australia

South Korea

Rest of Asia-Pacific

LAMEA

Brazil

South Africa

Saudi Arabia

Turkey

Rest of LAMEA

KEY PLAYERS

Koninklijke DSM N.V.

Archer Daniels Midland Company

Cargill Inc.

Alcogroup S.A.

Syngar Technologies Inc.

D?hler Group

CBH Qingdao Co., Ltd.

Hebei Kangdali Pharmaceutical Co., Ltd.

(Companies mentioned above are not profiled in the report, but can be profiled upon client request.)

Contents

CHAPTER 1. INTRODUCTION

- 1.1. REPORT DESCRIPTION
- 1.2. KEY BENEFITS
- 1.3. KEY MARKET SEGMENT
- 1.4. RESEARCH METHODOLOGY
 - 1.4.1. Secondary Research
 - 1.4.2. Primary Research
 - 1.4.3. Analyst Tool & Model

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. MARKET SNAPSHOT
- 2.2. CXO PERSPECTIVES

CHAPTER 3. MARKET OVERVIEW

- 3.1. MARKET DEFINITION AND SCOPE
- 3.2. KEY FINDINGS
 - 3.2.1. Top Investment Pockets
 - 3.2.2. Top winning strategies
- 3.3. PORTERS FIVE FORCES ANALYSIS
- 3.4. MARKET DYNAMICS
 - 3.4.1. Drivers
 - 3.4.1.1. Ecological concerns
 - 3.4.1.2. Development of bioethanol industry
 - 3.4.1.3. Increasing demand for antibiotics
 - 3.4.2. Restraints
 - 3.4.2.1. Irregular supply of raw materials
 - 3.4.2.2. High manufacturing cost
 - 3.4.3. Opportunities
 - 3.4.3.1. Technological innovation and expanding applications
 - 3.4.3.2. Growing demand from emerging economies
- 3.5. MARKET SHARE ANALYSIS, 2016 (%)

CHAPTER 4. GLOBAL FERMENTATION PRODUCTS MARKET, BY TYPE

4.1. INTRODUCTION

4.1.1. Market Size and Forecast

4.2. ALCOHOLS

4.2.1. Key Market Trends, Growth Factors and Opportunities

4.2.2. Market Size and Forecast

4.3. AMINO ACIDS

4.3.1. Key Market Trends, Growth Factors and Opportunities

4.3.2. Market Size and Forecast

4.4. ORGANIC ACIDS

4.4.1. Key Market Trends, Growth Factors and Opportunities

4.4.2. Market Size and Forecast

4.5. BIOGAS

4.5.1. Key Market Trends, Growth Factors and Opportunities

4.5.2. Market Size and Forecast

4.6. POLYMERS

4.6.1. Key Market Trends, Growth Factors and Opportunities

4.6.2. Market Size and Forecast

4.7. VITAMINS

4.7.1. Key Market Trends, Growth Factors and Opportunities

4.7.2. Market Size and Forecast

4.8. ANTIBIOTICS

4.8.1. Key Market Trends, Growth Factors and Opportunities

4.8.2. Market Size and Forecast

4.9. INDUSTRIAL ENZYMES

4.9.1. Key Market Trends, Growth Factors and Opportunities

4.9.2. Market Size and Forecast

CHAPTER 5. GLOBAL FERMENTATION PRODUCTS MARKET, BY FEEDSTOCK

5.1. INTRODUCTION

5.1.1. Market Size and Forecast

5.2. CORN

5.2.1. Key Market Trends, Growth Factors and Opportunities

5.2.2. Market Size and Forecast

5.3. RICE

5.3.1. Key Market Trends, Growth Factors and Opportunities

5.3.2. Market Size and Forecast

5.4. WHEAT

5.4.1. Key Market Trends, Growth Factors and Opportunities

- 5.4.2. Market Size and Forecast
- 5.5. SUGAR CANE
 - 5.5.1. Key Market Trends, Growth Factors and Opportunities
 - 5.5.2. Market Size and Forecast
- 5.6. CASSAVA
 - 5.6.1. Key Market Trends, Growth Factors and Opportunities
 - 5.6.2. Market Size and Forecast
- 5.7. BARLEY
 - 5.7.1. Key Market Trends, Growth Factors and Opportunities
 - 5.7.2. Market Size and Forecast
- 5.8. POTATOES
 - 5.8.1. Key Market Trends, Growth Factors and Opportunities
 - 5.8.2. Market Size and Forecast
- 5.9. SORGHUM
 - 5.9.1. Key Market Trends, Growth Factors and Opportunities
 - 5.9.2. Market Size and Forecast
- 5.10. SUGAR BEET
 - 5.10.1. Key Market Trends, Growth Factors and Opportunities
 - 5.10.2. Market Size and Forecast
- 5.11. OTHER COARSE GRAINS
 - 5.11.1. Key Market Trends, Growth Factors and Opportunities
 - 5.11.2. Market Size and Forecast
- 5.12. OTHER ROOTS & TUBERS
 - 5.12.1. Key Market Trends, Growth Factors and Opportunities
 - 5.12.2. Market Size and Forecast

CHAPTER 6. GLOBAL FERMENTATION PRODUCTS MARKET, BY PROCESS

- 6.1. INTRODUCTION
 - 6.1.1. Market Size and Forecast
- 6.2. BATCH FERMENTATION
 - 6.2.1. Key Market Trends, Growth Factors and Opportunities
 - 6.2.2. Market Size and Forecast
- 6.3. CONTINUOUS FERMENTATION
 - 6.3.1. Key Market Trends, Growth Factors and Opportunities
 - 6.3.2. Market Size and Forecast
- 6.4. OTHERS
 - 6.4.1. Key Market Trends, Growth Factors and Opportunities
 - 6.4.2. Market Size and Forecast

CHAPTER 7. GLOBAL FERMENTATION PRODUCTS MARKET, BY END-USER INDUSTRY

7.1. INTRODUCTION

7.1.1. Market Size and Forecast

7.2. FOOD & BEVERAGES

7.2.1. Key Market Trends, Growth Factors and Opportunities

7.2.2. Market Size and Forecast

7.3. PHARMACEUTICAL

7.3.1. Key Market Trends, Growth Factors and Opportunities

7.3.2. Market Size and Forecast

7.4. AGRICULTURE

7.4.1. Key Market Trends, Growth Factors and Opportunities

7.4.2. Market Size and Forecast

7.5. PERSONAL CARE

7.5.1. Key Market Trends, Growth Factors and Opportunities

7.5.2. Market Size and Forecast

7.6. ANIMAL FEED

7.6.1. Key Market Trends, Growth Factors and Opportunities

7.6.2. Market Size and Forecast

7.7. TEXTILE & LEATHER

7.7.1. Key Market Trends, Growth Factors and Opportunities

7.7.2. Market Size and Forecast

7.8. OTHERS

7.8.1. Key Market Trends, Growth Factors and Opportunities

7.8.2. Market Size and Forecast

CHAPTER 8. GLOBAL FERMENTATION PRODUCTS MARKET, BY GEOGRAPHY

8.1. INTRODUCTION

8.1.1. Market Size and Forecast

8.2. NORTH AMERICA

8.2.1. Key Market Trends, Growth Factors and Opportunities

8.2.2. Market Size and Forecast

8.2.3. U.S.

8.2.3.1. Market size and forecast, by type

8.2.4. Mexico

8.2.4.1. Market size and forecast, by type

8.2.5. Canada

8.2.5.1. Market size and forecast, by type

8.3. EUROPE

8.3.1. Key Market Trends, Growth Factors and Opportunities

8.3.2. Market Size and Forecast

8.3.3. UK

8.3.3.1. Market size and forecast, by type

8.3.4. Germany

8.3.4.1. Market size and forecast, by type

8.3.5. France

8.3.5.1. Market size and forecast, by type

8.3.6. Spain

8.3.6.1. Market size and forecast, by type

8.3.7. Italy

8.3.7.1. Market size and forecast, by type

8.3.8. Rest of Europe

8.3.8.1. Market size and forecast, by type

8.4. ASIA-PACIFIC

8.4.1. Key Market Trends, Growth Factors and Opportunities

8.4.2. Market Size and Forecast

8.4.3. China

8.4.3.1. Market size and forecast, by type

8.4.4. Japan

8.4.4.1. Market size and forecast, by type

8.4.5. India

8.4.5.1. Market size and forecast, by type

8.4.6. Australia

8.4.6.1. Market size and forecast, by type

8.4.7. South Korea

8.4.7.1. Market size and forecast, by type

8.4.8. Rest of Asia-Pacific

8.4.8.1. Market size and forecast, by type

8.5. LAMEA

8.5.1. Key Market Trends, Growth Factors and Opportunities

8.5.2. Market Size and Forecast

8.5.3. Brazil

8.5.3.1. Market size and forecast, by type

8.5.4. South Africa

8.5.4.1. Market size and forecast, by type

- 8.5.5. Saudi Arabia
 - 8.5.5.1. Market size and forecast, by type
- 8.5.6. Turkey
 - 8.5.6.1. Market size and forecast, by type
- 8.5.7. Rest of LAMEA
 - 8.5.7.1. Market size and forecast, by type

CHAPTER 9. COMPANY PROFILES

- 9.1. AB ENZYMES GMBH
 - 9.1.1. Company Overview
 - 9.1.2. Company Snapshot
 - 9.1.3. Operating Business Segments
 - 9.1.4. Business Performance
 - 9.1.5. Key Strategic Moves and Developments
- 9.2. AJINOMOTO COMPANY INCORPORATION
 - 9.2.1. Company Overview
 - 9.2.2. Company Snapshot
 - 9.2.3. Operating Business Segments
 - 9.2.4. Business Performance
 - 9.2.5. Key Strategic Moves and Developments
- 9.3. AMANO ENZYME INC.
 - 9.3.1. Company Overview
 - 9.3.2. Company Snapshot
 - 9.3.3. Operating Business Segments
 - 9.3.4. Business Performance
 - 9.3.5. Key Strategic Moves and Developments
- 9.4. BASF SE
 - 9.4.1. Company Overview
 - 9.4.2. Company Snapshot
 - 9.4.3. Operating Business Segments
 - 9.4.4. Business Performance
 - 9.4.5. Key Strategic Moves and Developments
- 9.5. CHR. HANSEN A/S
 - 9.5.1. Company Overview
 - 9.5.2. Company Snapshot
 - 9.5.3. Operating Business Segments
 - 9.5.4. Business Performance
 - 9.5.5. Key Strategic Moves and Developments

- 9.6. DU PONT DANISCO A/S
 - 9.6.1. Company Overview
 - 9.6.2. Company Snapshot
 - 9.6.3. Operating Business Segments
 - 9.6.4. Business Performance
 - 9.6.5. Key Strategic Moves and Developments
- 9.7. EVONIK INDUSTRIES AG
 - 9.7.1. Company Overview
 - 9.7.2. Company Snapshot
 - 9.7.3. Operating Business Segments
 - 9.7.4. Business Performance
 - 9.7.5. Key Strategic Moves and Developments
- 9.8. LONZA GROUP LTD.
 - 9.8.1. Company Overview
 - 9.8.2. Company Snapshot
 - 9.8.3. Operating Business Segments
 - 9.8.4. Business Performance
 - 9.8.5. Key Strategic Moves and Developments
- 9.9. NOVOZYMES A/S
 - 9.9.1. Company Overview
 - 9.9.2. Company Snapshot
 - 9.9.3. Operating Business Segments
 - 9.9.4. Business Performance
 - 9.9.5. Key Strategic Moves and Developments
- 9.10. THE DOW CHEMICAL COMPANY
 - 9.10.1. Company Overview
 - 9.10.2. Company Snapshot
 - 9.10.3. Operating Business Segments
 - 9.10.4. Business Performance
 - 9.10.5. Key Strategic Moves and Developments

List Of Tables

LIST OF TABLES

TABLE 1. GLOBAL FERMENTATION PRODUCTS MARKET, 2016-2023

TABLE 2. GLOBAL FERMENTATION PRODUCTS MARKET VOLUME, BY TYPE, 2016-2023 (KT)

TABLE 3. GLOBAL FERMENTATION PRODUCTS MARKET REVENUE, BY TYPE, 2016-2023 (\$MILLION)

TABLE 4. GLOBAL ALCOHOLS FERMENTATION PRODUCTS MARKET VOLUME, BY GEOGRAPHY, 2016-2023 (KT)

TABLE 5. GLOBAL ALCOHOLS FERMENTATION PRODUCTS MARKET REVENUE, BY GEOGRAPHY, 2016-2023 (\$MILLION)

TABLE 6. GLOBAL AMINO ACIDS FERMENTATION PRODUCTS MARKET VOLUME, BY GEOGRAPHY, 2016-2023 (KT)

TABLE 7. GLOBAL AMINO ACIDS FERMENTATION PRODUCTS MARKET REVENUE, BY GEOGRAPHY, 2016-2023 (\$MILLION)

TABLE 8. GLOBAL ORGANIC ACIDS FERMENTATION PRODUCTS MARKET VOLUME, BY GEOGRAPHY, 2016-2023 (KT)

TABLE 9. GLOBAL ORGANIC ACIDS FERMENTATION PRODUCTS MARKET REVENUE, BY GEOGRAPHY, 2016-2023 (\$MILLION)

TABLE 10. GLOBAL BIOGAS FERMENTATION PRODUCTS MARKET VOLUME, BY GEOGRAPHY, 2016-2023 (KT)

TABLE 11. GLOBAL BIOGAS FERMENTATION PRODUCTS MARKET REVENUE, BY GEOGRAPHY, 2016-2023 (\$MILLION)

TABLE 12. GLOBAL POLYMERS FERMENTATION PRODUCTS MARKET VOLUME, BY GEOGRAPHY, 2016-2023 (KT)

TABLE 13. GLOBAL POLYMERS FERMENTATION PRODUCTS MARKET REVENUE, BY GEOGRAPHY, 2016-2023 (\$MILLION)

TABLE 14. GLOBAL VITAMINS FERMENTATION PRODUCTS MARKET VOLUME, BY GEOGRAPHY, 2016-2023 (KT)

TABLE 15. GLOBAL VITAMINS FERMENTATION PRODUCTS MARKET REVENUE, BY GEOGRAPHY, 2016-2023 (\$MILLION)

TABLE 16. GLOBAL ANTIBIOTICS FERMENTATION PRODUCTS MARKET VOLUME, BY GEOGRAPHY, 2016-2023 (KT)

TABLE 17. GLOBAL ANTIBIOTICS FERMENTATION PRODUCTS MARKET REVENUE, BY GEOGRAPHY, 2016-2023 (\$MILLION)

TABLE 18. GLOBAL INDUSTRIAL ENZYMES FERMENTATION PRODUCTS MARKET VOLUME, BY GEOGRAPHY, 2016-2023 (KT)

TABLE 19. GLOBAL INDUSTRIAL ENZYMES PRODUCTS MARKET REVENUE, BY GEOGRAPHY, 2016-2023 (\$MILLION)

TABLE 20. GLOBAL FERMENTATION PRODUCTS MARKET VOLUME, BY FEEDSTOCK, 2016-2023 (KT)

TABLE 21. GLOBAL FERMENTATION PRODUCTS MARKET REVENUE, BY FEEDSTOCK, 2016-2023 (\$MILLION)

TABLE 22. GLOBAL FERMENTATION PRODUCTS MARKET VOLUME BY CORN, BY GEOGRAPHY, 2016-2023 (KT)

TABLE 23. GLOBAL FERMENTATION PRODUCTS MARKET REVENUE BY CORN, BY GEOGRAPHY, 2016-2023 (\$MILLION)

TABLE 24. GLOBAL FERMENTATION PRODUCTS MARKET VOLUME BY RICE, BY GEOGRAPHY, 2016-2023 (KT)

TABLE 25. GLOBAL FERMENTATION PRODUCTS MARKET REVENUE BY RICE, BY GEOGRAPHY, 2016-2023 (\$MILLION)

TABLE 26. GLOBAL FERMENTATION PRODUCTS MARKET VOLUME BY WHEAT, BY GEOGRAPHY, 2016-2023 (KT)

TABLE 27. GLOBAL FERMENTATION PRODUCTS MARKET REVENUE BY WHEAT, BY GEOGRAPHY, 2016-2023 (\$MILLION)

TABLE 28. GLOBAL FERMENTATION PRODUCTS MARKET VOLUME BY SUGAR CANE, BY GEOGRAPHY, 2016-2023 (KT)

TABLE 29. GLOBAL FERMENTATION PRODUCTS MARKET REVENUE BY SUGAR CANE, BY GEOGRAPHY, 2016-2023 (\$MILLION)

TABLE 30. GLOBAL FERMENTATION PRODUCTS MARKET VOLUME BY CASSAVA, BY GEOGRAPHY, 2016-2023 (KT)

TABLE 31. GLOBAL FERMENTATION PRODUCTS MARKET REVENUE BY CASSAVA, BY GEOGRAPHY, 2016-2023 (\$MILLION)

TABLE 32. GLOBAL FERMENTATION PRODUCTS MARKET VOLUME BY BARLEY, BY GEOGRAPHY, 2016-2023 (KT)

TABLE 33. GLOBAL FERMENTATION PRODUCTS MARKET REVENUE BY BARLEY, BY GEOGRAPHY, 2016-2023 (\$MILLION)

TABLE 34. GLOBAL FERMENTATION PRODUCTS MARKET VOLUME BY POTATOES, BY GEOGRAPHY, 2016-2023 (KT)

TABLE 35. GLOBAL FERMENTATION PRODUCTS MARKET REVENUE BY SUGAR POTATOES, BY GEOGRAPHY, 2016-2023 (\$MILLION)

TABLE 36. GLOBAL FERMENTATION PRODUCTS MARKET VOLUME BY SORGHUM, BY GEOGRAPHY, 2016-2023 (KT)

TABLE 37. GLOBAL FERMENTATION PRODUCTS MARKET REVENUE BY SORGHUM, BY GEOGRAPHY, 2016-2023 (\$MILLION)

TABLE 38. GLOBAL FERMENTATION PRODUCTS MARKET VOLUME BY SUGAR

BEET, BY GEOGRAPHY, 2016-2023 (KT)

TABLE 39. GLOBAL FERMENTATION PRODUCTS MARKET REVENUE BY SUGAR BEET, BY GEOGRAPHY, 2016-2023 (\$MILLION)

TABLE 40. GLOBAL FERMENTATION PRODUCTS MARKET VOLUME BY OTHER COARSE GRAINS, BY GEOGRAPHY, 2016-2023 (KT)

TABLE 41. GLOBAL FERMENTATION PRODUCTS MARKET REVENUE BY OTHER COARSE GRAINS, BY GEOGRAPHY, 2016-2023 (\$MILLION)

TABLE 42. GLOBAL FERMENTATION PRODUCTS MARKET VOLUME BY OTHER ROOTS & TUBERS, BY GEOGRAPHY, 2016-2023 (KT)

TABLE 43. GLOBAL FERMENTATION PRODUCTS MARKET REVENUE BY OTHER ROOTS & TUBERS, BY GEOGRAPHY, 2016-2023 (\$MILLION)

TABLE 44. GLOBAL FERMENTATION PRODUCTS MARKET VOLUME, BY PROCESS, 2016-2023 (KT)

TABLE 45. GLOBAL FERMENTATION PRODUCTS MARKET REVENUE, BY PROCESS, 2016-2023 (\$MILLION)

TABLE 46. GLOBAL FERMENTATION PRODUCTS MARKET PRODUCED THROUGH BATCH FERMENTATION PROCESS, VOLUME, BY GEOGRAPHY, 2016-2023 (KT)

TABLE 47. GLOBAL FERMENTATION PRODUCTS MARKET PRODUCED THROUGH BATCH FERMENTATION PROCESS, REVENUE, BY GEOGRAPHY, 2016-2023 (\$MILLION)

TABLE 48. GLOBAL FERMENTATION PRODUCTS MARKET PRODUCED THROUGH CONTINUOUS FERMENTATION PROCESS, VOLUME, BY GEOGRAPHY, 2016-2023 (KT)

TABLE 49. GLOBAL FERMENTATION PRODUCTS MARKET PRODUCED THROUGH CONTINUOUS FERMENTATION PROCESS, REVENUE, BY GEOGRAPHY, 2016-2023 (\$MILLION)

TABLE 50. GLOBAL FERMENTATION PRODUCTS MARKET PRODUCED THROUGH OTHERS PROCESS, VOLUME, BY GEOGRAPHY, 2016-2023 (KT)

TABLE 51. GLOBAL FERMENTATION PRODUCTS MARKET PRODUCED THROUGH OTHERS PROCESS, REVENUE, BY GEOGRAPHY, 2016-2023 (\$MILLION)

TABLE 52. GLOBAL FERMENTATION PRODUCTS MARKET VOLUME, BY END-USER INDUSTRY, 2016-2023 (KT)

TABLE 53. GLOBAL FERMENTATION PRODUCTS MARKET REVENUE, BY END-USER INDUSTRY, 2016-2023 (\$MILLION)

TABLE 54. GLOBAL FERMENTATION PRODUCTS MARKET IN FOOD & BEVERAGES INDUSTRY, VOLUME, BY GEOGRAPHY, 2016-2023 (KT)

TABLE 55. GLOBAL FERMENTATION PRODUCTS MARKET IN FOOD & BEVERAGES INDUSTRY, REVENUE, BY GEOGRAPHY, 2016-2023 (\$MILLION)

TABLE 56. GLOBAL FERMENTATION PRODUCTS MARKET IN PHAMACEUTICAL

INDUSTRY, VOLUME, BY GEOGRAPHY, 2016-2023 (KT)

TABLE 57. GLOBAL FERMENTATION PRODUCTS MARKET IN PHAMACEUTICAL INDUSTRY, REVENUE, BY GEOGRAPHY, 2016-2023 (\$MILLION)

TABLE 58. GLOBAL FERMENTATION PRODUCTS MARKET IN AGRICULTURE INDUSTRY, VOLUME, BY GEOGRAPHY, 2016-2023 (KT)

TABLE 59. GLOBAL FERMENTATION PRODUCTS MARKET IN AGRICULTURE INDUSTRY, REVENUE, BY GEOGRAPHY, 2016-2023 (\$MILLION)

TABLE 60. GLOBAL FERMENTATION PRODUCTS MARKET IN PERSONAL CARE INDUSTRY, VOLUME, BY GEOGRAPHY, 2016-2023 (KT)

TABLE 61. GLOBAL FERMENTATION PRODUCTS MARKET IN PERSONAL CARE INDUSTRY, REVENUE, BY GEOGRAPHY, 2016-2023 (\$MILLION)

TABLE 62. GLOBAL FERMENTATION PRODUCTS MARKET IN ANIMAL FEED INDUSTRY, VOLUME, BY GEOGRAPHY, 2016-2023 (KT)

TABLE 63. GLOBAL FERMENTATION PRODUCTS MARKET IN ANIMAL FEED INDUSTRY, REVENUE, BY GEOGRAPHY, 2016-2023 (\$MILLION)

TABLE 64. GLOBAL FERMENTATION PRODUCTS MARKET IN PAPER, TEXTILE & LEATHER INDUSTRY, VOLUME, BY GEOGRAPHY, 2016-2023 (KT)

TABLE 65. GLOBAL FERMENTATION PRODUCTS MARKET IN PAPER, TEXTILE & LEATHER INDUSTRY, REVENUE, BY GEOGRAPHY, 2016-2023 (\$MILLION)

TABLE 66. GLOBAL FERMENTATION PRODUCTS MARKET IN OTHERS INDUSTRY, VOLUME, BY GEOGRAPHY, 2016-2023 (KT)

TABLE 67. GLOBAL FERMENTATION PRODUCTS MARKET IN OTHERS INDUSTRY, REVENUE, BY GEOGRAPHY, 2016-2023 (\$MILLION)

TABLE 68. GLOBAL FERMENTATION PRODUCTS MARKET VOLUME, BY GEOGRAPHY, 2016-2023 (KT)

TABLE 69. GLOBAL FERMENTATION PRODUCTS MARKET REVENUE, BY GEOGRAPHY, 2016-2023 (\$MILLION)

TABLE 70. NORTH AMERICA FERMENTATION PRODUCTS MARKET, 2016-2023

TABLE 71. NORTH AMERICA FERMENTATION PRODUCTS MARKET VOLUME, BY TYPE, 2016-2023 (KT)

TABLE 72. NORTH AMERICA FERMENTATION PRODUCTS MARKET REVENUE, BY TYPE, 2016-2023 (\$MILLION)

TABLE 73. NORTH AMERICA FERMENTATION PRODUCTS MARKET VOLUME, BY FEEDSTOCK, 2016-2023 (KT)

TABLE 74. NORTH AMERICA FERMENTATION PRODUCTS MARKET REVENUE, BY FEEDSTOCK, 2016-2023 (\$MILLION)

TABLE 75. NORTH AMERICA FERMENTATION PRODUCTS MARKET VOLUME, BY PROCESS, 2016-2023 (KT)

TABLE 76. NORTH AMERICA FERMENTATION PRODUCTS MARKET REVENUE,

BY PROCESS, 2016-2023 (\$MILLION)

TABLE 77. NORTH AMERICA FERMENTATION PRODUCTS MARKET VOLUME, BY END-USER INDUSTRY, 2016-2023 (KT)

TABLE 78. NORTH AMERICA FERMENTATION PRODUCTS MARKET REVENUE, BY END-USER INDUSTRY, 2016-2023 (\$MILLION)

TABLE 79. NORTH AMERICA FERMENTATION PRODUCTS MARKET VOLUME, BY COUNTRY, 2016-2023 (KT)

TABLE 80. NORTH AMERICA FERMENTATION PRODUCTS MARKET REVENUE, BY COUNTRY, 2016-2023 (\$MILLION)

TABLE 81. U.S. FERMENTATION PRODUCTS MARKET VOLUME, BY TYPE, 2016-2023 (KT)

TABLE 82. U.S. FERMENTATION PRODUCTS MARKET REVENUE, BY TYPE, 2016-2023 (\$MILLION)

TABLE 83. MEXICO FERMENTATION PRODUCTS MARKET VOLUME, BY TYPE, 2016-2023 (KT)

TABLE 84. MEXICO FERMENTATION PRODUCTS MARKET REVENUE, BY TYPE, 2016-2023 (\$MILLION)

TABLE 85. CANADA FERMENTATION PRODUCTS MARKET VOLUME, BY TYPE, 2016-2023 (KT)

TABLE 86. CANADA FERMENTATION PRODUCTS MARKET REVENUE, BY TYPE, 2016-2023 (\$MILLION)

TABLE 87. EUROPE FERMENTATION PRODUCTS MARKET, 2016-2023

TABLE 88. EUROPE FERMENTATION PRODUCTS MARKET VOLUME, BY TYPE, 2016-2023 (KT)

TABLE 89. EUROPE FERMENTATION PRODUCTS MARKET REVENUE, BY TYPE, 2016-2023 (\$MILLION)

TABLE 90. EUROPE FERMENTATION PRODUCTS MARKET VOLUME, BY FEEDSTOCK, 2016-2023 (KT)

TABLE 91. EUROPE FERMENTATION PRODUCTS MARKET REVENUE, BY FEEDSTOCK, 2016-2023 (\$MILLION)

TABLE 92. EUROPE FERMENTATION PRODUCTS MARKET VOLUME, BY PROCESS, 2016-2023 (KT)

TABLE 93. EUROPE FERMENTATION PRODUCTS MARKET REVENUE, BY PROCESS, 2016-2023 (\$MILLION)

TABLE 94. EUROPE FERMENTATION PRODUCTS MARKET VOLUME, BY END-USER INDUSTRY, 2016-2023 (KT)

TABLE 95. EUROPE FERMENTATION PRODUCTS MARKET REVENUE, BY END-USER INDUSTRY, 2016-2023 (\$MILLION)

TABLE 96. EUROPE FERMENTATION PRODUCTS MARKET VOLUME, BY

COUNTRY, 2016-2023 (KT)

TABLE 97. EUROPE FERMENTATION PRODUCTS MARKET REVENUE, BY COUNTRY, 2016-2023 (\$MILLION)

TABLE 98. UK FERMENTATION PRODUCTS MARKET VOLUME, BY TYPE, 2016-2023 (KT)

TABLE 99. UK FERMENTATION PRODUCTS MARKET REVENUE, BY TYPE, 2016-2023 (\$MILLION)

TABLE 100. GERMANY FERMENTATION PRODUCTS MARKET VOLUME, BY TYPE, 2016-2023 (KT)

TABLE 101. GERMANY FERMENTATION PRODUCTS MARKET REVENUE, BY TYPE, 2016-2023 (\$MILLION)

TABLE 102. FRANCE FERMENTATION PRODUCTS MARKET VOLUME, BY TYPE, 2016-2023 (KT)

TABLE 103. FRANCE FERMENTATION PRODUCTS MARKET REVENUE, BY TYPE, 2016-2023 (\$MILLION)

TABLE 104. SPAIN FERMENTATION PRODUCTS MARKET VOLUME, BY TYPE, 2016-2023 (KT)

TABLE 105. SPAIN FERMENTATION PRODUCTS MARKET REVENUE, BY TYPE, 2016-2023 (\$MILLION)

TABLE 106. ITALY FERMENTATION PRODUCTS MARKET VOLUME, BY TYPE, 2016-2023 (KT)

TABLE 107. ITALY FERMENTATION PRODUCTS MARKET REVENUE, BY TYPE, 2016-2023 (\$MILLION)

TABLE 108. REST OF EUROPE FERMENTATION PRODUCTS MARKET VOLUME, BY TYPE, 2016-2023 (KT)

TABLE 109. REST OF EUROPE FERMENTATION PRODUCTS MARKET REVENUE, BY TYPE, 2016-2023 (\$MILLION)

TABLE 110. ASIA-PACIFIC FERMENTATION PRODUCTS MARKET, 2016-2023

TABLE 111. ASIA-PACIFIC FERMENTATION PRODUCTS MARKET VOLUME, BY TYPE, 2016-2023 (KT)

TABLE 112. ASIA-PACIFIC FERMENTATION PRODUCTS MARKET REVENUE, BY TYPE, 2016-2023 (\$MILLION)

TABLE 113. ASIA-PACIFIC FERMENTATION PRODUCTS MARKET VOLUME, BY FEEDSTOCK, 2016-2023 (KT)

TABLE 114. ASIA-PACIFIC FERMENTATION PRODUCTS MARKET REVENUE, BY FEEDSTOCK, 2016-2023 (\$MILLION)

TABLE 115. ASIA-PACIFIC FERMENTATION PRODUCTS MARKET VOLUME, BY PROCESS, 2016-2023 (KT)

TABLE 116. ASIA-PACIFIC FERMENTATION PRODUCTS MARKET REVENUE, BY

PROCESS, 2016-2023 (\$MILLION)

TABLE 117. ASIA-PACIFIC FERMENTATION PRODUCTS MARKET VOLUME, BY END-USER INDUSTRY, 2016-2023 (KT)

TABLE 118. ASIA-PACIFIC FERMENTATION PRODUCTS MARKET REVENUE, BY END-USER INDUSTRY, 2016-2023 (\$MILLION)

TABLE 119. ASIA-PACIFIC FERMENTATION PRODUCTS MARKET VOLUME, BY COUNTRY, 2016-2023 (KT)

TABLE 120. ASIA-PACIFIC FERMENTATION PRODUCTS MARKET REVENUE, BY COUNTRY, 2016-2023 (\$MILLION)

TABLE 121. CHINA FERMENTATION PRODUCTS MARKET VOLUME, BY TYPE, 2016-2023 (KT)

TABLE 122. CHINA FERMENTATION PRODUCTS MARKET REVENUE, BY TYPE, 2016-2023 (\$MILLION)

TABLE 123. JAPAN FERMENTATION PRODUCTS MARKET VOLUME, BY TYPE, 2016-2023 (KT)

TABLE 124. JAPAN FERMENTATION PRODUCTS MARKET REVENUE, BY TYPE, 2016-2023 (\$MILLION)

TABLE 125. INDIA FERMENTATION PRODUCTS MARKET VOLUME, BY TYPE, 2016-2023 (KT)

TABLE 126. INDIA FERMENTATION PRODUCTS MARKET REVENUE, BY TYPE, 2016-2023 (\$MILLION)

TABLE 127. AUSTRALIA FERMENTATION PRODUCTS MARKET VOLUME, BY TYPE, 2016-2023 (KT)

TABLE 128. AUSTRALIA FERMENTATION PRODUCTS MARKET REVENUE, BY TYPE, 2016-2023 (\$MILLION)

TABLE 129. SOUTH KOREA FERMENTATION PRODUCTS MARKET VOLUME, BY TYPE, 2016-2023 (KT)

TABLE 130. SOUTH KOREA FERMENTATION PRODUCTS MARKET REVENUE, BY TYPE, 2016-2023 (\$MILLION)

TABLE 131. REST OF ASIA-PACIFIC FERMENTATION PRODUCTS MARKET VOLUME, BY TYPE, 2016-2023 (KT)

TABLE 132. REST OF ASIA-PACIFIC FERMENTATION PRODUCTS MARKET REVENUE, BY TYPE, 2016-2023 (\$MILLION)

TABLE 133. LAMEA FERMENTATION PRODUCTS MARKET, 2016-2023

TABLE 134. LAMEA FERMENTATION PRODUCTS MARKET VOLUME, BY TYPE, 2016-2023 (KT)

TABLE 135. LAMEA FERMENTATION PRODUCTS MARKET REVENUE, BY TYPE, 2016-2023 (\$MILLION)

TABLE 136. LAMEA FERMENTATION PRODUCTS MARKET VOLUME, BY

FEEDSTOCK, 2016-2023 (KT)

TABLE 137. LAMEA FERMENTATION PRODUCTS MARKET REVENUE, BY FEEDSTOCK, 2016-2023 (\$MILLION)

TABLE 138. LAMEA FERMENTATION PRODUCTS MARKET VOLUME, BY PROCESS, 2016-2023 (KT)

TABLE 139. LAMEA FERMENTATION PRODUCTS MARKET REVENUE, BY PROCESS, 2016-2023 (\$MILLION)

TABLE 140. LAMEA FERMENTATION PRODUCTS MARKET VOLUME, BY END-USER INDUSTRY, 2016-2023 (KT)

TABLE 141. LAMEA FERMENTATION PRODUCTS MARKET REVENUE, BY END-USER INDUSTRY, 2016-2023 (\$MILLION)

TABLE 142. LAMEA FERMENTATION PRODUCTS MARKET VOLUME, BY COUNTRY, 2016-2023 (KT)

TABLE 143. LAMEA FERMENTATION PRODUCTS MARKET REVENUE, BY COUNTRY, 2016-2023 (\$MILLION)

TABLE 144. BRAZIL FERMENTATION PRODUCTS MARKET VOLUME, BY TYPE, 2016-2023 (KT)

TABLE 145. BRAZIL FERMENTATION PRODUCTS MARKET REVENUE, BY TYPE, 2016-2023 (\$MILLION)

TABLE 146. SOUTH AFRICA FERMENTATION PRODUCTS MARKET VOLUME, BY TYPE, 2016-2023 (KT)

TABLE 147. SOUTH AFRICA FERMENTATION PRODUCTS MARKET REVENUE, BY TYPE, 2016-2023 (\$MILLION)

TABLE 148. SAUDI ARABIA FERMENTATION PRODUCTS MARKET VOLUME, BY TYPE, 2016-2023 (KT)

TABLE 149. SAUDI ARABIA FERMENTATION PRODUCTS MARKET REVENUE, BY TYPE, 2016-2023 (\$MILLION)

TABLE 150. TURKEY FERMENTATION PRODUCTS MARKET VOLUME, BY TYPE, 2016-2023 (KT)

TABLE 151. TURKEY FERMENTATION PRODUCTS MARKET REVENUE, BY TYPE, 2016-2023 (\$MILLION)

TABLE 152. REST OF LAMEA FERMENTATION PRODUCTS MARKET VOLUME, BY TYPE, 2016-2023 (KT)

TABLE 153. REST OF LAMEA FERMENTATION PRODUCTS MARKET REVENUE, BY TYPE, 2016-2023 (\$MILLION)

TABLE 154. AB ENZYMES GMBH: COMPANY SNAPSHOT

TABLE 155. AB ENZYMES GMBH: OPERATING SEGMENTS

TABLE 156. AJINOMOTO COMPANY INCORPORATION: COMPANY SNAPSHOT

TABLE 157. AJINOMOTO COMPANY INCORPORATION: OPERATING SEGMENTS

TABLE 158. AMANO ENZYME INC.: COMPANY SNAPSHOT
TABLE 159. AMANO ENZYME INC.: OPERATING SEGMENTS
TABLE 160. BASF SE: COMPANY SNAPSHOT
TABLE 161. BASF SE: OPERATING SEGMENTS
TABLE 162. CHR. HANSEN A/S: COMPANY SNAPSHOT
TABLE 163. CHR. HANSEN A/S: OPERATING SEGMENTS
TABLE 164. DU PONT DANISCO A/S: COMPANY SNAPSHOT
TABLE 165. DU PONT DANISCO A/S: OPERATING SEGMENTS
TABLE 166. EVONIK INDUSTRIES AG: COMPANY SNAPSHOT
TABLE 167. EVONIK INDUSTRIES AG: OPERATING SEGMENTS
TABLE 168. LONZA GROUP LTD.: COMPANY SNAPSHOT
TABLE 169. LONZA GROUP LTD.: OPERATING SEGMENTS
TABLE 170. NOVOZYMES A/S: COMPANY SNAPSHOT
TABLE 171. NOVOZYMES A/S: OPERATING SEGMENTS
TABLE 172. THE DOW CHEMICAL COMPANY: COMPANY SNAPSHOT
TABLE 173. THE DOW CHEMICAL COMPANY: OPERATING SEGMENTS

List Of Figures

LIST OF FIGURES

FIGURE 1. GLOBAL FERMENTATION PRODUCTS MARKET: SEGMENTATION

FIGURE 2. GLOBAL FERMENTATION PRODUCTS MARKET SHARE, BY END-USER INDUSTRY, 2016 (%)

FIGURE 3. TOP INVESTMENT POCKETS, BY TYPE

FIGURE 4. TOP WINNING STRATEGIES

FIGURE 5. BARGAINING POWER OF SUPPLIERS

FIGURE 6. BARGAINING POWER OF BUYERS

FIGURE 7. THREAT OF NEW ENTRANTS

FIGURE 8. THREAT OF SUBSTITUTES

FIGURE 9. COMPETITIVE RIVALRY

FIGURE 10. U.S. FERMENTATION PRODUCTS MARKET, 2015-2023(KILOTONS, \$MILLION)

FIGURE 11. MEXICO FERMENTATION PRODUCTS MARKET, 2015-2023(KILOTONS, \$MILLION)

FIGURE 12. CANADA FERMENTATION PRODUCTS MARKET, 2015-2023(KILOTONS, \$MILLION)

FIGURE 13. UK FERMENTATION PRODUCTS MARKET, 2015-2023(KILOTONS, \$MILLION)

FIGURE 14. GERMANY FERMENTATION PRODUCTS MARKET, 2015-2023(KILOTONS, \$MILLION)

FIGURE 15. FRANCE FERMENTATION PRODUCTS MARKET, 2015-2023(KILOTONS, \$MILLION)

FIGURE 16. SPAIN FERMENTATION PRODUCTS MARKET, 2015-2023(KILOTONS, \$MILLION)

FIGURE 17. ITALY FERMENTATION PRODUCTS MARKET, 2015-2023(KILOTONS, \$MILLION)

FIGURE 18. REST OF EUROPE FERMENTATION PRODUCTS MARKET, 2015-2023(KILOTONS, \$MILLION)

FIGURE 19. CHINA FERMENTATION PRODUCTS MARKET, 2015-2023(KILOTONS, \$MILLION)

FIGURE 20. JAPAN FERMENTATION PRODUCTS MARKET, 2015-2023(KILOTONS, \$MILLION)

FIGURE 21. INDIA FERMENTATION PRODUCTS MARKET, 2015-2023(KILOTONS, \$MILLION)

FIGURE 22. SOUTH KOREA FERMENTATION PRODUCTS MARKET,

2015-2023(KILOTONS, \$MILLION)

FIGURE 23. AUSTRALIA FERMENTATION PRODUCTS MARKET,

2015-2023(KILOTONS, \$MILLION)

FIGURE 24. REST OF ASIA-PACIFIC FERMENTATION PRODUCTS MARKET,

2015-2023(KILOTONS, \$MILLION)

FIGURE 25. BRAZIL FERMENTATION PRODUCTS MARKET, 2015-2023(KILOTONS, \$MILLION)

FIGURE 26. SOUTH AFRICA FERMENTATION PRODUCTS MARKET,

2015-2023(KILOTONS, \$MILLION)

FIGURE 27. SAUDI ARABIA FERMENTATION PRODUCTSMARKET,

2015-2023(KILOTONS, \$MILLION)

FIGURE 28. TURKEY FERMENTATION PRODUCTSMARKET,

2015-2023(KILOTONS, \$MILLION)

FIGURE 29. REST OF LAMEA FERMENTATION PRODUCTSMARKET,

2015-2023(KILOTONS, \$MILLION)

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