

Bioprocess Monitoring Market Size, Share & Trends Analysis Report By Product (Reagents & Kits, Instruments, Software), By Application, By End-use, By Region, And Segment Forecasts, 2024 - 2030

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Abstracts

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Bioprocess Monitoring Market Growth & Trends

The global bioprocess monitoring market is anticipated to reach USD 6.29 billion by 2030 and is projected to grow at a CAGR of 9.45% from 2024 to 2030, according to a new report by Grand View Research, Inc. Several factors are driving the market growth. More accurate and trustworthy bioprocess monitoring instruments are required as the market for cutting-edge and effective biopharmaceutical products-such as vaccines, recombinant proteins, and monoclonal antibodies-continues to grow. These goods are essential for improving public health and treating a range of medical issues. Moreover, it is anticipated that the growing number of alliances and collaborations among industry participants will support market expansion. For instance, Beckman Coulter Life Sciences and Flownamics established a strategic alliance in August 2022 to create a cutting-edge, automated solution for the real-time monitoring and management of bioprocess cultures. This collaboration combines Vi-CELL BLU Cell Viability Analyzer with Flownamics' Seg-Flow S3 Automated On-Line, aiming to enhance the efficiency and accuracy of bioprocess monitoring.

There are several reasons for the market expansion for bioprocess monitoring, Still, one of the main ones is the notable rise in capital expenditures made by pharmaceutical companies for the creation and manufacturing of biologics. The ability of biologics to treat a wide range of illnesses and enhance public health has made them more well-

known in recent years. For instance, in January 2024, the multinational biopharmaceutical giant AbbVie invested USD 223 million in its Singapore manufacturing location to improve its biologics manufacturing capabilities. Pharmaceutical companies are making significant investments in R&D, manufacturing capacity, and regulatory compliance to bring these biologics to market as they work to create novel treatments.

In addition, government programs and financial support for biotechnology research have been crucial in promoting creativity and expansion in the bioprocess monitoring industry. The creation of cutting-edge technologies and their commercialization are the results of partnerships between government, business, and academia.

The biotechnology industry's boom in research and development (R&D) has greatly contributed to the market expansion for bioprocess monitoring. The development of cutting-edge tools and methods brought about by this surge in investment and creativity has completely changed how bioprocesses are observed and managed. The market for bioprocess monitoring is now growing quickly because of the sophisticated instruments and techniques that make it possible to measure several parameters precisely and efficiently while biological products are being produced.

Bioprocess Monitoring Market Report Highlights

Based on product, the reagents & kits segment led the market with the largest revenue share of 70.31% share in 2023, due to the high demand for personalized medicines. On the other hand, the software segment is expected to grow at the fastest CAGR during the forecast period

Based on application, the host cell residual DNA/protein quantitation segment held the market with the largest revenue share of 30.88% in 2023. On the other hand, the mycoplasma detection segment is expected to grow at the fastest CAGR during the forecast period

Based on end-use, the pharmaceutical & biotechnology companies led the market with the largest revenue share of 46.90% in 2023, and CMOs & CROs segment is expected to grow at a significant CAGR during the forecast period

North America dominated the market with the revenue share of 43.24% in 2023, driven by rising demand for advanced technology, increasing regulatory compliance, and a focus on improving product quality

Asia Pacific is expected to grow at the fastest CAGR over the forecast period, this upsurge is attributed to the growing biotechnology & pharmaceutical sectors within the region, propelled by factors such as heightened healthcare spending and the expansion of research & development activities

Contents

CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Market Segmentation and Scope
- 1.2. Market Definitions
 - 1.2.1. Product
 - 1.2.2. Application
 - 1.2.3. End-use
- 1.3. Information analysis
- 1.4. Market formulation & data visualization
- 1.5. Data validation & publishing
- 1.6. Information Procurement
 - 1.6.1. Primary Research
- 1.7. Information or Data Analysis
- 1.8. Market Formulation & Validation
- 1.9. Market Model
- 1.10. Objectives

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Market Outlook
- 2.2. Segment Snapshot
- 2.3. Competitive Landscape Snapshot

CHAPTER 3. MARKET VARIABLES, TRENDS, & SCOPE

- 3.1. Market Lineage Outlook
 - 3.1.1. Parent Market Outlook
 - 3.1.2. Related/Ancillary Market Outlook
- 3.2. Market Dynamics
 - 3.2.1. Market Driver Analysis
 - 3.2.1.1. The rising demand for personalized medicine
 - 3.2.1.2. Increased complexity of biologics
 - 3.2.1.3. Growing concerns over cell culture contamination
 - 3.2.2. Market Restraint Analysis
 - 3.2.2.1. High initial investment and maintenance costs
- 3.3. Industry Analysis Tools
 - 3.3.1. Porter's Five Forces Analysis

3.3.2. PESTEL Analysis

3.3.3. COVID-19 Impact Analysis

CHAPTER 4. BIOPROCESS MONITORING MARKET: PRODUCT BUSINESS ANALYSIS

4.1. Segment Dashboard

4.2. Global Bioprocess Monitoring Market Product Movement Analysis

4.3. Global Bioprocess Monitoring Market Size & Trend Analysis, by Product, 2018 to 2030 (USD Million)

4.4. Reagents & Kits

4.4.1. Global Reagents & Kits Market Estimates and Forecasts, 2018 - 2030 (USD Million)

4.5. Instruments

4.5.1. Global Instruments Market Estimates and Forecasts, 2018 - 2030 (USD Million)

4.6. Software

4.6.1. Global Software Market Estimates and Forecasts, 2018 - 2030 (USD Million)

CHAPTER 5. BIOPROCESS MONITORING MARKET: APPLICATION BUSINESS ANALYSIS

5.1. Segment Dashboard

5.2. Global Bioprocess Monitoring Market Application, Movement Analysis

5.3. Global Bioprocess Monitoring Market Size & Trend Analysis, by Application, 2018 to 2030 (USD Million)

5.4. Host Cell Residual DNA/Protein Quantitation

5.4.1. Global Host Cell Residual DNA/Protein Quantitation Market Estimates and Forecasts, 2018 - 2030 (USD Million)

5.5. Mycoplasma Detection

5.5.1. Global Mycoplasma Detection Market Estimates and Forecasts, 2018 - 2030 (USD Million)

5.6. Viral Titer Determination

5.6.1. Global Viral Titer Determination Market Estimates and Forecasts, 2018 - 2030 (USD Million)

5.7. Adventitious Virus Testing

5.7.1. Global Adventitious Virus Testing Market Estimates and Forecasts, 2018 - 2030 (USD Million)

5.8. Other Applications

5.8.1. Global Other Applications Market Estimates and Forecasts, 2018 - 2030 (USD Million)

Million)

CHAPTER 6. BIOPROCESS MONITORING MARKET: END-USE BUSINESS ANALYSIS

6.1. Segment Dashboard

6.2. Global Bioprocess Monitoring Market End-use Movement Analysis

6.3. Global Bioprocess Monitoring Market Size & Trend Analysis, by End-use, 2018 to 2030 (USD Million)

6.4. Pharmaceutical & Biotechnology Companies

6.4.1. Global Pharmaceutical & Biotechnology Companies Market Estimates and Forecasts, 2018 - 2030 (USD Million)

6.5. CROs & CMOs

6.5.1. Global CROs & CMOs Market Estimates and Forecasts, 2018 - 2030 (USD Million)

6.6. Academic & Research Institutes

6.6.1. Global Academic & Research Institutes Market Estimates and Forecasts, 2018 - 2030 (USD Million)

CHAPTER 7. BIOPROCESS MONITORING MARKET: REGIONAL ESTIMATES & TREND ANALYSIS BY PRODUCT, APPLICATION, & END-USE

7.1. Regional Dashboard

7.2. Market Size & Forecasts and Trend Analysis, 2018 to 2030

7.3. North America

7.3.1. North America Bioprocess Monitoring Market Estimates and Forecasts, 2018 - 2030 (USD Million)

7.3.2. U.S.

7.3.2.1. Key Country Dynamics

7.3.2.2. Competitive Scenario

7.3.2.3. Regulatory Framework

7.3.2.4. U.S. Bioprocess Monitoring Market Estimates and Forecasts, 2018 - 2030 (USD Million)

7.3.3. Canada

7.3.3.1. Key Country Dynamics

7.3.3.2. Competitive Scenario

7.3.3.3. Regulatory Framework

7.3.3.4. Canada Bioprocess Monitoring Market Estimates and Forecasts, 2018 - 2030 (USD Million)

7.4. Europe

7.4.1. Europe Bioprocess Monitoring Market Estimates and Forecasts, 2018 - 2030
(USD Million)

7.4.2. UK

7.4.2.1. Key Country Dynamics

7.4.2.2. Competitive Scenario

7.4.2.3. Regulatory Framework

7.4.2.4. UK Bioprocess Monitoring Market Estimates and Forecasts, 2018 - 2030
(USD Million)

7.4.3. Germany

7.4.3.1. Key Country Dynamics

7.4.3.2. Competitive Scenario

7.4.3.3. Regulatory Framework

7.4.3.4. Germany Bioprocess Monitoring Market Estimates and Forecasts, 2018 -
2030 (USD Million)

7.4.4. France

7.4.4.1. Key Country Dynamics

7.4.4.2. Competitive Scenario

7.4.4.3. Regulatory Framework

7.4.4.4. France Bioprocess Monitoring Market Estimates and Forecasts, 2018 - 2030
(USD Million)

7.4.5. Italy

7.4.5.1. Key Country Dynamics

7.4.5.2. Competitive Scenario

7.4.5.3. Regulatory Framework

7.4.5.4. Italy Bioprocess Monitoring Market Estimates and Forecasts, 2018 - 2030
(USD Million)

7.4.6. Spain

7.4.6.1. Key Country Dynamics

7.4.6.2. Competitive Scenario

7.4.6.3. Regulatory Framework

7.4.6.4. Spain Bioprocess Monitoring Market Estimates and Forecasts, 2018 - 2030
(USD Million)

7.4.7. Denmark

7.4.7.1. Key Country Dynamics

7.4.7.2. Competitive Scenario

7.4.7.3. Regulatory Framework

7.4.7.4. Denmark Bioprocess Monitoring Market Estimates and Forecasts, 2018 -
2030 (USD Million)

7.4.8. Sweden

7.4.8.1. Key Country Dynamics

7.4.8.2. Competitive Scenario

7.4.8.3. Regulatory Framework

7.4.8.4. Sweden Bioprocess Monitoring Market Estimates and Forecasts, 2018 - 2030 (USD Million)

7.4.9. Norway

7.4.9.1. Key Country Dynamics

7.4.9.2. Competitive Scenario

7.4.9.3. Regulatory Framework

7.4.9.4. Norway Bioprocess Monitoring Market Estimates and Forecasts, 2018 - 2030 (USD Million)

7.5. Asia Pacific

7.5.1. Asia Pacific Bioprocess Monitoring Market Estimates and Forecasts, 2018 - 2030 (USD Million)

7.5.2. Japan

7.5.2.1. Key Country Dynamics

7.5.2.2. Competitive Scenario

7.5.2.3. Regulatory Framework

7.5.2.4. Japan Bioprocess Monitoring Market Estimates and Forecasts, 2018 - 2030 (USD Million)

7.5.3. China

7.5.3.1. Key Country Dynamics

7.5.3.2. Competitive Scenario

7.5.3.3. Regulatory Framework

7.5.3.4. China Bioprocess Monitoring Market Estimates and Forecasts, 2018 - 2030 (USD Million)

7.5.4. India

7.5.4.1. Key Country Dynamics

7.5.4.2. Competitive Scenario

7.5.4.3. Regulatory Framework

7.5.4.4. India Bioprocess Monitoring Market Estimates and Forecasts, 2018 - 2030 (USD Million)

7.5.5. Australia

7.5.5.1. Key Country Dynamics

7.5.5.2. Competitive Scenario

7.5.5.3. Regulatory Framework

7.5.5.4. Australia Bioprocess Monitoring Market Estimates and Forecasts, 2018 - 2030 (USD Million)

7.5.6. Thailand

7.5.6.1. Key Country Dynamics

7.5.6.2. Competitive Scenario

7.5.6.3. Regulatory Framework

7.5.6.4. Thailand Bioprocess Monitoring Market Estimates and Forecasts, 2018 - 2030 (USD Million)

7.5.7. South Korea

7.5.7.1. Key Country Dynamics

7.5.7.2. Competitive Scenario

7.5.7.3. Regulatory Framework

7.5.7.4. South Korea Bioprocess Monitoring Market Estimates and Forecasts, 2018 - 2030 (USD Million)

7.6. Latin America

7.6.1. Latin America Bioprocess Monitoring Market Estimates and Forecasts, 2018 - 2030 (USD Million)

7.6.2. Brazil

7.6.2.1. Key Country Dynamics

7.6.2.2. Competitive Scenario

7.6.2.3. Regulatory Framework

7.6.2.4. Brazil Bioprocess Monitoring Market Estimates and Forecasts, 2018 - 2030 (USD Million)

7.6.3. Mexico

7.6.3.1. Key Country Dynamics

7.6.3.2. Competitive Scenario

7.6.3.3. Regulatory Framework

7.6.3.4. Mexico Bioprocess Monitoring Market Estimates and Forecasts, 2018 - 2030 (USD Million)

7.6.4. Argentina

7.6.4.1. Key Country Dynamics

7.6.4.2. Competitive Scenario

7.6.4.3. Regulatory Framework

7.6.4.4. Argentina Bioprocess Monitoring Market Estimates and Forecasts, 2018 - 2030 (USD Million)

7.7. MEA

7.7.1. MEA Bioprocess Monitoring Market Estimates and Forecasts, 2018 - 2030 (USD Million)

7.7.2. South Africa

7.7.2.1. Key Country Dynamics

7.7.2.2. Competitive Scenario

- 7.7.2.3. Regulatory Framework
- 7.7.2.4. South Africa Bioprocess Monitoring Market Estimates and Forecasts, 2018 - 2030 (USD Million)
- 7.7.3. Saudi Arabia
 - 7.7.3.1. Key Country Dynamics
 - 7.7.3.2. Competitive Scenario
 - 7.7.3.3. Regulatory Framework
 - 7.7.3.4. Saudi Arabia Bioprocess Monitoring Market Estimates and Forecasts, 2018 - 2030 (USD Million)
- 7.7.4. UAE
 - 7.7.4.1. Key Country Dynamics
 - 7.7.4.2. Competitive Scenario
 - 7.7.4.3. Regulatory Framework
 - 7.7.4.4. UAE Bioprocess Monitoring Market Estimates and Forecasts, 2018 - 2030 (USD Million)
- 7.7.5. Kuwait
 - 7.7.5.1. Key Country Dynamics
 - 7.7.5.2. Competitive Scenario
 - 7.7.5.3. Regulatory Framework
 - 7.7.5.4. Kuwait Bioprocess Monitoring Market Estimates and Forecasts, 2018 - 2030 (USD Million)

CHAPTER 8. COMPETITIVE LANDSCAPE

- 8.1. Participant Categorization
- 8.2. Strategy Mapping
- 8.3. Company Market Position Analysis, 2023
- 8.4. Participant's Overview
 - 8.4.1. Thermo Fisher Scientific Inc.
 - 8.4.1.1. Overview
 - 8.4.1.2. Financial Performance
 - 8.4.1.3. Product Benchmarking
 - 8.4.1.4. Strategic Initiatives
 - 8.4.2. QIAGEN
 - 8.4.2.1. Overview
 - 8.4.2.2. Financial Performance
 - 8.4.2.3. Product Benchmarking
 - 8.4.2.4. Strategic Initiatives
 - 8.4.3. Merck KGaA

- 8.4.3.1. Overview
- 8.4.3.2. Financial Performance
- 8.4.3.3. Product Benchmarking
- 8.4.3.4. Strategic Initiatives
- 8.4.4. F. Hoffmann-La Roche Ltd
 - 8.4.4.1. Overview
 - 8.4.4.2. Financial Performance
 - 8.4.4.3. Product Benchmarking
 - 8.4.4.4. Strategic Initiatives
- 8.4.5. Bio-Rad Laboratories, Inc.
 - 8.4.5.1. Overview
 - 8.4.5.2. Financial Performance
 - 8.4.5.3. Product Benchmarking
 - 8.4.5.4. Strategic Initiatives
- 8.4.6. Bio-Techne.
 - 8.4.6.1. Overview
 - 8.4.6.2. Financial Performance
 - 8.4.6.3. Product Benchmarking
 - 8.4.6.4. Strategic Initiatives
- 8.4.7. Enzo Life Sciences, Inc.,
 - 8.4.7.1. Overview
 - 8.4.7.2. Financial Performance
 - 8.4.7.3. Product Benchmarking
 - 8.4.7.4. Strategic Initiatives
- 8.4.8. Maravai LifeSciences.
 - 8.4.8.1. Overview
 - 8.4.8.2. Financial Performance
 - 8.4.8.3. Product Benchmarking
 - 8.4.8.4. Strategic Initiatives
- 8.4.9. Lonza
 - 8.4.9.1. Overview
 - 8.4.9.2. Financial Performance
 - 8.4.9.3. Product Benchmarking
 - 8.4.9.4. Strategic Initiatives
- 8.4.10. Applied Biological Materials Inc.
 - 8.4.10.1. Overview
 - 8.4.10.2. Financial Performance
 - 8.4.10.3. Product Benchmarking
 - 8.4.10.4. Strategic Initiatives

List Of Tables

LIST OF TABLES

Table 1 List of secondary sources

Table 2 List of abbreviations

Table 3 Global bioprocess monitoring market, by product, 2018 - 2030 (USD Million)

Table 4 Global bioprocess monitoring market, by application, 2018 - 2030 (USD Million)

Table 5 Global bioprocess monitoring market, by end-use, 2018 - 2030 (USD Million)

Table 6 Global bioprocess monitoring market, by region, 2018 - 2030 (USD Million)

Table 7 North America bioprocess monitoring market, by country, 2018 - 2030 (USD Million)

Table 8 North America bioprocess monitoring market, by product, 2018 - 2030 (USD Million)

Table 9 North America bioprocess monitoring market, by application, 2018 - 2030 (USD Million)

Table 10 North America bioprocess monitoring market, by end-use, 2018 - 2030 (USD Million)

Table 11 U.S. bioprocess monitoring market, by product, 2018 - 2030 (USD Million)

Table 12 U.S. bioprocess monitoring market, by application, 2018 - 2030 (USD Million)

Table 13 U.S. bioprocess monitoring market, by end-use, 2018 - 2030 (USD Million)

Table 14 Canada bioprocess monitoring market, by product, 2018 - 2030 (USD Million)

Table 15 Canada bioprocess monitoring market, by application, 2018 - 2030 (USD Million)

Table 16 Canada bioprocess monitoring market, by end-use, 2018 - 2030 (USD Million)

Table 17 Europe bioprocess monitoring market, by country, 2018 - 2030 (USD Million)

Table 18 Europe bioprocess monitoring market, by product, 2018 - 2030 (USD Million)

Table 19 Europe bioprocess monitoring market, by application, 2018 - 2030 (USD Million)

Table 20 Europe bioprocess monitoring market, by end-use, 2018 - 2030 (USD Million)

Table 21 UK bioprocess monitoring market, by product, 2018 - 2030 (USD Million)

Table 22 UK bioprocess monitoring market, by application, 2018 - 2030 (USD Million)

Table 23 UK bioprocess monitoring market, by end-use, 2018 - 2030 (USD Million)

Table 24 Germany bioprocess monitoring market, by product, 2018 - 2030 (USD Million)

Table 25 Germany bioprocess monitoring market, by application, 2018 - 2030 (USD Million)

Table 26 Germany bioprocess monitoring market, by end-use, 2018 - 2030 (USD Million)

Table 27 France bioprocess monitoring market, by product, 2018 - 2030 (USD Million)

Table 28 France bioprocess monitoring market, by application, 2018 - 2030 (USD Million)

Table 29 France bioprocess monitoring market, by end-use, 2018 - 2030 (USD Million)

Table 30 Italy bioprocess monitoring market, by product, 2018 - 2030 (USD Million)

Table 31 Italy bioprocess monitoring market, by application, 2018 - 2030 (USD Million)

Table 32 Italy bioprocess monitoring market, by end-use, 2018 - 2030 (USD Million)

Table 33 Spain bioprocess monitoring market, by product, 2018 - 2030 (USD Million)

Table 34 Spain bioprocess monitoring market, by application, 2018 - 2030 (USD Million)

Table 35 Spain bioprocess monitoring market, by end-use, 2018 - 2030 (USD Million)

Table 36 Denmark bioprocess monitoring market, by product, 2018 - 2030 (USD Million)

Table 37 Denmark bioprocess monitoring market, by application, 2018 - 2030 (USD Million)

Table 38 Denmark bioprocess monitoring market, by end-use, 2018 - 2030 (USD Million)

Table 39 Sweden bioprocess monitoring market, by product, 2018 - 2030 (USD Million)

Table 40 Sweden bioprocess monitoring market, by application, 2018 - 2030 (USD Million)

Table 41 Sweden bioprocess monitoring market, by end-use, 2018 - 2030 (USD Million)

Table 42 Norway bioprocess monitoring market, by product, 2018 - 2030 (USD Million)

Table 43 Norway bioprocess monitoring market, by application, 2018 - 2030 (USD Million)

Table 44 Norway bioprocess monitoring market, by end-use, 2018 - 2030 (USD Million)

Table 45 Asia Pacific bioprocess monitoring market, by country, 2018 - 2030 (USD Million)

Table 46 Asia Pacific bioprocess monitoring market, by product, 2018 - 2030 (USD Million)

Table 47 Asia Pacific bioprocess monitoring market, by application, 2018 - 2030 (USD Million)

Table 48 Asia Pacific bioprocess monitoring market, by end-use, 2018 - 2030 (USD Million)

Table 49 Japan bioprocess monitoring market, by product, 2018 - 2030 (USD Million)

Table 50 Japan bioprocess monitoring market, by application, 2018 - 2030 (USD Million)

Table 51 Japan bioprocess monitoring market, by end-use, 2018 - 2030 (USD Million)

Table 52 China bioprocess monitoring market, by product, 2018 - 2030 (USD Million)

Table 53 China bioprocess monitoring market, by application, 2018 - 2030 (USD Million)

Table 54 China bioprocess monitoring market, by end-use, 2018 - 2030 (USD Million)

Table 55 India bioprocess monitoring market, by product, 2018 - 2030 (USD Million)

- Table 56 India bioprocess monitoring market, by application, 2018 - 2030 (USD Million)
- Table 57 India bioprocess monitoring market, by end-use, 2018 - 2030 (USD Million)
- Table 58 Australia bioprocess monitoring market, by product, 2018 - 2030 (USD Million)
- Table 59 Australia bioprocess monitoring market, by application, 2018 - 2030 (USD Million)
- Table 60 Australia bioprocess monitoring market, by end-use, 2018 - 2030 (USD Million)
- Table 61 Thailand bioprocess monitoring market, by product, 2018 - 2030 (USD Million)
- Table 62 Thailand bioprocess monitoring market, by application, 2018 - 2030 (USD Million)
- Table 63 Thailand bioprocess monitoring market, by end-use, 2018 - 2030 (USD Million)
- Table 64 South Korea bioprocess monitoring market, by product, 2018 - 2030 (USD Million)
- Table 65 South Korea bioprocess monitoring market, by application, 2018 - 2030 (USD Million)
- Table 66 South Korea bioprocess monitoring market, by end-use, 2018 - 2030 (USD Million)
- Table 67 Latin America bioprocess monitoring market, by country, 2018 - 2030 (USD Million)
- Table 68 Latin America bioprocess monitoring market, by product, 2018 - 2030 (USD Million)
- Table 69 Latin America bioprocess monitoring market, by application, 2018 - 2030 (USD Million)
- Table 70 Latin America bioprocess monitoring market, by end-use, 2018 - 2030 (USD Million)
- Table 71 Brazil bioprocess monitoring market, by product, 2018 - 2030 (USD Million)
- Table 72 Brazil bioprocess monitoring market, by application, 2018 - 2030 (USD Million)
- Table 73 Brazil bioprocess monitoring market, by end-use, 2018 - 2030 (USD Million)
- Table 74 Mexico bioprocess monitoring market, by product, 2018 - 2030 (USD Million)
- Table 75 Mexico bioprocess monitoring market, by application, 2018 - 2030 (USD Million)
- Table 76 Mexico bioprocess monitoring market, by end-use, 2018 - 2030 (USD Million)
- Table 77 Argentina bioprocess monitoring market, by product, 2018 - 2030 (USD Million)
- Table 78 Argentina bioprocess monitoring market, by application, 2018 - 2030 (USD Million)
- Table 79 Argentina bioprocess monitoring market, by end-use, 2018 - 2030 (USD Million)
- Table 80 Middle East & Africa bioprocess monitoring market, by country, 2018 - 2030

(USD Million)

Table 81 Middle East & Africa bioprocess monitoring market, by product, 2018 - 2030

(USD Million)

Table 82 Middle East & Africa bioprocess monitoring market, by application, 2018 - 2030 (USD Million)

Table 83 Middle East & Africa bioprocess monitoring market, by end-use, 2018 - 2030 (USD Million)

Table 84 South Africa bioprocess monitoring market, by product, 2018 - 2030 (USD Million)

Table 85 South Africa bioprocess monitoring market, by application, 2018 - 2030 (USD Million)

Table 86 South Africa bioprocess monitoring market, by end-use, 2018 - 2030 (USD Million)

Table 87 Saudi Arabia bioprocess monitoring market, by product, 2018 - 2030 (USD Million)

Table 88 Saudi Arabia bioprocess monitoring market, by application, 2018 - 2030 (USD Million)

Table 89 Saudi Arabia bioprocess monitoring market, by end-use, 2018 - 2030 (USD Million)

Table 90 UAE bioprocess monitoring market, by product, 2018 - 2030 (USD Million)

Table 91 UAE bioprocess monitoring market, by application, 2018 - 2030 (USD Million)

Table 92 UAE bioprocess monitoring market, by end-use, 2018 - 2030 (USD Million)

Table 93 Kuwait bioprocess monitoring market, by product, 2018 - 2030 (USD Million)

Table 94 Kuwait bioprocess monitoring market, by application, 2018 - 2030 (USD Million)

Table 95 Kuwait bioprocess monitoring market, by end-use, 2018 - 2030 (USD Million)

Table 96 Participant's overview

Table 97 Financial performance

Table 98 Key companies undergoing expansions

Table 99 Key companies undergoing acquisitions

Table 100 Key companies undergoing collaborations

Table 101 Key companies launching new products

Table 102 Key companies undertaking other strategies

List Of Figures

LIST OF FIGURES

- Fig. 1 Bioprocess monitoring market segmentation
- Fig. 2 Market research process
- Fig. 3 Data triangulation techniques
- Fig. 4 Primary research pattern
- Fig. 5 Market research approaches
- Fig. 6 Market formulation & validation
- Fig. 7 Market outlook
- Fig. 8 Segment snapshot
- Fig. 9 Competitive landscape snapshot
- Fig. 10 Parent market outlook
- Fig. 11 Bioprocess monitoring market driver analysis
- Fig. 12 Bioprocess monitoring market restraint analysis
- Fig. 13 Bioprocess monitoring market: Porter's analysis
- Fig. 14 Bioprocess monitoring market: PESTEL analysis
- Fig. 15 Bioprocess monitoring market: Product outlook and key takeaways
- Fig. 16 Bioprocess monitoring market: Product market share analysis, 2023 - 2030
- Fig. 17 Global bioprocess monitoring by reagents & kits market, 2018 - 2030 (USD Million)
- Fig. 18 Global bioprocess monitoring by instruments market, 2018 - 2030 (USD Million)
- Fig. 19 Global bioprocess monitoring by software market, 2018 - 2030 (USD Million)
- Fig. 20 Bioprocess monitoring market: Application outlook and key takeaways
- Fig. 21 Bioprocess monitoring market: Application market share analysis, 2023 - 2030
- Fig. 22 Global bioprocess monitoring by host cell residual DNA/protein quantitation market, 2018 - 2030 (USD Million)
- Fig. 23 Global bioprocess monitoring by mycoplasma detection market, 2018 - 2030 (USD Million)
- Fig. 24 Global bioprocess monitoring by viral titer determination market, 2018 - 2030 (USD Million)
- Fig. 25 Global bioprocess monitoring by adventitious virus testing market, 2018 - 2030 (USD Million)
- Fig. 26 Global bioprocess monitoring by other applications market, 2018 - 2030 (USD Million)
- Fig. 27 Bioprocess monitoring market: End-use outlook and key takeaways
- Fig. 28 Bioprocess monitoring market: End-use market share analysis, 2023 - 2030

Fig. 29 Global bioprocess monitoring by pharmaceutical & biotechnology companies market, 2018 - 2030 (USD Million)

Fig. 30 Global bioprocess monitoring by CROs & CMOs market, 2018 - 2030 (USD Million)

Fig. 31 Global bioprocess monitoring by academic & research institutes market, 2018 - 2030 (USD Million)

Fig. 32 Regional marketplace: Key takeaways

Fig. 33 North America bioprocess monitoring market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 34 U.S. bioprocess monitoring market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 35 Canada bioprocess monitoring market, 2018 - 2030 (USD Million)

Fig. 36 Europe bioprocess monitoring market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 37 UK bioprocess monitoring market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 38 Germany bioprocess monitoring market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 39 France bioprocess monitoring market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 40 Italy bioprocess monitoring market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 41 Spain bioprocess monitoring market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 42 Denmark bioprocess monitoring market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 43 Sweden bioprocess monitoring market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 44 Norway bioprocess monitoring market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 45 Asia-Pacific bioprocess monitoring market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 46 Japan bioprocess monitoring market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 47 China bioprocess monitoring market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 48 India bioprocess monitoring market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 49 Australia bioprocess monitoring market estimates and forecast, 2018 - 2030

(USD Million)

Fig. 50 Thailand bioprocess monitoring market estimates and forecast, 2018 - 2030

(USD Million)

Fig. 51 South Korea bioprocess monitoring market estimates and forecast, 2018 - 2030

(USD Million)

Fig. 52 Latin America bioprocess monitoring market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 53 Brazil bioprocess monitoring market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 54 Mexico bioprocess monitoring market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 55 Argentina bioprocess monitoring market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 56 MEA bioprocess monitoring market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 57 South Africa bioprocess monitoring market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 58 Saudi Arabia bioprocess monitoring market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 59 UAE bioprocess monitoring market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 60 Kuwait bioprocess monitoring market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 61 Key company categorization

Fig. 62 Company market positioning

Fig. 63 Market participant categorization

Fig. 64 Strategy framework

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