

Biomanufacturing Viral Detection and Quantification Market - A Global and Regional Analysis: Focus on Offering Type, Technology, Application, End User, and Region - Analysis and Forecast, 2023-2032

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Abstracts

Global Biomanufacturing Viral Detection and Quantification Market Industry Overview

The global biomanufacturing viral detection and quantification market was valued at \$474.3 million in 2022 and is anticipated to reach \$1,149.7 million by 2032, witnessing a CAGR of 9.37% during the forecast period 2023-2032. The global biomanufacturing viral detection and quantification market is expected to be driven by the rising utilization of biopharmaceutical products and the technological advancements in the viral testing industry.

Market Lifecycle Stage

The global biomanufacturing viral detection and quantification market is in progressing phase. The biomanufacturing viral detection and quantification market is experiencing rapid growth due to the increasing adoption of biopharmaceuticals. Robust quality control processes are essential to ensure the safety, efficacy, and consistency of biopharmaceuticals. These factors are expected to drive the demand for consumables and instruments for quantification of viral contaminants during biomanufacturing of biologics, thereby augmenting the growth of the biomanufacturing viral detection and quantification market.

Impact

Viral detection and quantification is used to evaluate and improve the biomanufacturing

process throughout process development. Manufacturers can detect potential viral contamination sources and make the required adjustments to reduce risks and boost process effectiveness by detecting and quantifying viral contaminants at different stages. Emerging cell and gene therapies, along with other biotherapeutics, are at risk of contamination, including viral contaminants. Detecting these contaminants early on is important to prevent any delays in the production process, which can have a direct impact on the commercialization of therapy. Cell and gene therapies utilize viral vectors to deliver therapeutic genes or manipulate cells for therapeutic purposes. In addition, the entry of several established players, such as Thermo Fisher Scientific Inc., Merck KGaA, Charles River Laboratories, Bio-Rad Laboratories, Inc., QIAGEN N.V., and others, is expected to aid the market growth.

Due to better cleanliness, people witnessed global advancement in the control of infectious contamination over the past few years. The market for biomanufacturing viral detection and quantification is expanding due to the growing demand for precise viral testing in the biomanufacturing of therapies. In conclusion, as the field of emerging cell and gene therapies continues to advance, it is imperative to address the potential risks of viral contamination.

Market Segmentation:

Segmentation 1: by Offering Type

Consumables

Instruments

Services

Consumables Segment Accounted for Major Share in the Global Biomanufacturing Viral Detection and Quantification Market (by Offering Type)

Based on offering type, the consumables segment dominated the global biomanufacturing viral detection and quantification market in FY2022. The increasing adoption of kits, assays, and accessories contributed to the prominence of the consumables segment. Consumables are products and materials that are constantly consumed throughout the viral testing process. Several consumables are utilized in viral detection and quantification during biomanufacturing to simplify testing and analysis of

viral samples. These consumables are necessary to carry out the several procedures and tests required to determine the quantity or concentration of a particular virus in a biological sample.

Segmentation 2: by Technology

PCR

ELISA

Flow Cytometry

Plaque Assay

Others

PCR Technology Segment Accounted for Major Share in the Global Biomanufacturing Viral Detection and Quantification Market (by Technology)

Based on technology, the PCR segment dominated the global biomanufacturing viral detection and quantification market in FY2022. In the field of molecular biology and viral testing, polymerase chain reaction (PCR) is a commonly used technique. It is a method for identifying and measuring viral nucleic acids that are sensitive and focused during the production of biopharmaceuticals. In addition, PCR is essential for measuring the viral load, or the quantity of viral genetic material, in a biological sample.

Segmentation 3: by Application

Blood and Blood Products Manufacturing

Vaccines and Therapeutics Manufacturing

Cellular and Gene Therapy Products Manufacturing

Stem Cell Products Manufacturing

Tissue and Tissue Products Manufacturing

Blood and Blood Products Manufacturing Segment Accounted for Major Share in the Global Biomanufacturing Viral Detection and Quantification Market (by Application)

Based on application, the global biomanufacturing viral detection and quantification market was dominated by the blood and blood products manufacturing segment in FY2022. In biomanufacturing processes, viral testing is an essential component in verifying the safety and quality of blood and blood products. This test involves identifying and measuring viral particles or viral nucleic acids that are present in blood samples. To identify and measure viral nucleic acids, methods such as nucleic acid amplification testing (NAT) are often employed.

Segmentation 4: by End User

Life Science Companies

Testing Laboratories

CROs and CDMOs

Life Science Companies to Continue its Dominance in the End User Segment

Based on end user, the life science companies segment accounted for the largest share of the global biomanufacturing viral detection and quantification market in FY2022. In the life science sector, viral detection and quantification refers to the measuring and evaluation of viral particles or viral components at distinct stages of medication development, production, and evaluation. Viral load, or the quantity or concentration of viruses present in each sample or system, must be detected and quantified.

Segmentation 5: by Region

North America

Europe

Asia-Pacific

Latin America

Middle East and Africa

North America held the largest share of 38.72% in 2022 in the global biomanufacturing viral detection and quantification market, owing to the presence of most key players and rising funding in the region.

In addition, Asia-Pacific is expected to grow at the highest CAGR of 10.47% in the forecast period 2023-2032, owing to the continuous research and development in the viral detection and quantification industry as well as the supportive regulatory landscape.

Demand - Drivers and Limitations

Market Demand Drivers:

Increasing Utilization of Biopharmaceuticals

Technological Advancements in Viral Detection and Quantification

Market Restraints:

High Cost of Advanced Viral Detection and Quantification Equipment

Lack of Trained Professionals in the Field of Viral Detection and Quantification

Market Opportunities:

Increasing Need in Viral Contamination Considerations for the Development of Cell and Gene Therapies

How can this report add value to an organization?

Workflow/Innovation Strategy: The biomanufacturing viral detection and quantification market (by offering type) has been segmented into consumables, instruments, and services. Moreover, the study provides the reader with a detailed understanding of the

different applications of biomanufacturing viral detection and quantification in raw material preparation, upstream processing, downstream processing, and packaging.

Growth/Marketing Strategy: Biomanufacturing viral detection and quantification is being used for raw material preparation, upstream processing, downstream processing, and packaging. Various companies are providing products and services to aid in the viral testing of various biologic production, which is also the key strategy for market players to excel in the current biomanufacturing viral detection and quantification market.

Competitive Strategy: Key players in the global biomanufacturing viral detection and quantification market have been analyzed and profiled in the study, including manufacturers. Moreover, a detailed competitive benchmarking of the players operating in the global biomanufacturing viral detection and quantification market has been done to help the reader understand how players stack against each other, presenting a clear market landscape.

Key Market Players and Competition Synopsis

Viral contamination poses a significant risk to both animal- and human-derived biopharmaceuticals. This form of contamination can occur at any stage of the bioproduction process, necessitating viral testing studies and the implementation of viral clearance methods by biomanufacturers. In this study, several types of fundamental technologies have been examined that have facilitated these advances, namely, polymerase chain reaction (PCR), plaque assays, flow cytometry, and enzyme-linked immunosorbent assay (ELISA), among others. The global biomanufacturing viral detection and quantification market is strongly driven by the continuous introduction of new technologies as well as increased investments and funding from both the government and private sectors.

Key Companies Profiled:

Danaher Corporation

Merck KGaA

New England Biolabs

TAKARA HOLDINGS INC.

Thermo Fisher Scientific Inc.

Agilent Technologies, Inc.

Sartorius AG

Charles River Laboratories

Bio-Rad Laboratories, Inc.

PerkinElmer, Inc.

Promega Corporation

QIAGEN N.V.

Genscript Biotech Corporation

Norgen Biotek Corp.

Contents

1 PRODUCT DEFINITION

1.1 Inclusion and Exclusion Criteria

2 MARKET SCOPE

2.1 Scope of the Study

2.2 Key Questions Answered in the Report

3 RESEARCH METHODOLOGY

4 MARKET OVERVIEW

4.1 Overview

4.2 Current Market Size and Future Growth Potential, \$Billion, 2022-2032

5 INDUSTRY OUTLOOK

5.1 Regulatory Landscape

5.1.1 Legal Requirements and Frameworks in the U.S.

5.1.1.1 Marketing Authorization

5.1.2 Legal Requirements and Frameworks in Europe

5.1.3 Legal Requirements and Frameworks in Asia-Pacific

5.1.3.1 Legal Requirements and Framework in Japan

6 GLOBAL BIOMANUFACTURING VIRAL DETECTION AND QUANTIFICATION MARKET: MARKET DYNAMICS

6.1 Business Drivers

6.1.1 Increasing Utilization of Biopharmaceuticals

6.1.2 Technological Advancements in Viral Detection and Quantification

6.1.3 Impact Analysis

6.2 Business Restraints

6.2.1 High Cost of Advanced Viral Detection and Quantification Equipment

6.2.2 Lack of Trained Professionals in the Field of Viral Detection and Quantification

6.2.3 Impact Analysis

6.3 Business Opportunities

6.3.1 Increasing Need in Viral Contamination Considerations for the Development of Cell and Gene Therapies

7 GLOBAL BIOMANUFACTURING VIRAL DETECTION AND QUANTIFICATION MARKET (BY OFFERING TYPE), VALUE (\$MILLION), 2022-2032

7.1 Overview

7.2 Consumables

7.2.1 Kits and Assays

7.2.2 Accessories

7.3 Instruments

7.4 Services

8 GLOBAL BIOMANUFACTURING VIRAL DETECTION AND QUANTIFICATION MARKET (BY TECHNOLOGY), VALUE (\$MILLION), 2022-2032

8.1 Overview

8.2 PCR

8.3 Flow Cytometry

8.4 ELISA

8.5 Plaque Assay

8.6 Others

9 GLOBAL BIOMANUFACTURING VIRAL DETECTION AND QUANTIFICATION MARKET (BY APPLICATION), VALUE (\$MILLION), 2022-2032

9.1 Overview

9.2 Blood and Blood Products Manufacturing

9.3 Cellular and Gene Therapy Products Manufacturing

9.4 Stem Cell Products Manufacturing

9.5 Tissue and Tissue Products Manufacturing

9.6 Vaccines and Therapeutics Manufacturing

10 GLOBAL BIOMANUFACTURING VIRAL DETECTION AND QUANTIFICATION MARKET (BY END USER), VALUE (\$MILLION), 2022-2032

10.1 Overview

10.2 Life Science Companies

10.3 Testing Laboratories

10.4 CROs and CDMOs

11 GLOBAL BIOMANUFACTURING VIRAL DETECTION AND QUANTIFICATION MARKET (BY REGION), VALUE (\$MILLION), 2022-2032

11.1 Overview

11.2 North America

11.2.1 North America Biomanufacturing Viral Detection and Quantification Market (by Offering Type)

11.2.2 North America Biomanufacturing Viral Detection and Quantification Market (by Technology)

11.2.3 North America Biomanufacturing Viral Detection and Quantification Market (by Application)

11.2.4 North America Biomanufacturing Viral Detection and Quantification Market (by End User)

11.2.5 North America Biomanufacturing Viral Detection and Quantification Market (by Country)

11.2.5.1 U.S.

11.2.5.1.1 U.S. Biomanufacturing Viral Detection and Quantification Market (by Offering Type)

11.2.5.1.2 U.S. Biomanufacturing Viral Detection and Quantification Market (by Technology)

11.2.5.1.3 U.S. Biomanufacturing Viral Detection and Quantification Market (by Application)

11.2.5.1.4 U.S. Biomanufacturing Viral Detection and Quantification Market (by End User)

11.2.5.2 Canada

11.2.5.2.1 Canada Biomanufacturing Viral Detection and Quantification Market (by Offering Type)

11.2.5.2.2 Canada Biomanufacturing Viral Detection and Quantification Market (by Technology)

11.2.5.2.3 Canada Biomanufacturing Viral Detection and Quantification Market (by Application)

11.2.5.2.4 Canada Biomanufacturing Viral Detection and Quantification Market (by End User)

11.3 Europe

11.3.1 Europe Biomanufacturing Viral Detection and Quantification Market (by Offering Type)

11.3.2 Europe Biomanufacturing Viral Detection and Quantification Market (by

Technology)

11.3.3 Europe Biomanufacturing Viral Detection and Quantification Market (by Application)

11.3.4 Europe Biomanufacturing Viral Detection and Quantification Market (by End User)

11.3.5 Europe Biomanufacturing Viral Detection and Quantification Market (by Country)

11.3.5.1 Germany

11.3.5.1.1 Germany Biomanufacturing Viral Detection and Quantification Market (by Offering Type)

11.3.5.1.2 Germany Biomanufacturing Viral Detection and Quantification Market (by Technology)

11.3.5.1.3 Germany Biomanufacturing Viral Detection and Quantification Market (by Application)

11.3.5.1.4 Germany Biomanufacturing Viral Detection and Quantification Market (by End User)

11.3.5.2 U.K.

11.3.5.2.1 U.K. Biomanufacturing Viral Detection and Quantification Market (by Offering Type)

11.3.5.2.2 U.K. Biomanufacturing Viral Detection and Quantification Market (by Technology)

11.3.5.2.3 U.K. Biomanufacturing Viral Detection and Quantification Market (by Application)

11.3.5.2.4 U.K. Biomanufacturing Viral Detection and Quantification Market (by End User)

11.3.5.3 France

11.3.5.3.1 France Biomanufacturing Viral Detection and Quantification Market (by Offering Type)

11.3.5.3.2 France Biomanufacturing Viral Detection and Quantification Market (by Technology)

11.3.5.3.3 France Biomanufacturing Viral Detection and Quantification Market (by Application)

11.3.5.3.4 France Biomanufacturing Viral Detection and Quantification Market (by End User)

11.3.5.4 Spain

11.3.5.4.1 Spain Biomanufacturing Viral Detection and Quantification Market (by Offering Type)

11.3.5.4.2 Spain Biomanufacturing Viral Detection and Quantification Market (by Technology)

11.3.5.4.3 Spain Biomanufacturing Viral Detection and Quantification Market (by Application)

11.3.5.4.4 Spain Biomanufacturing Viral Detection and Quantification Market (by End User)

11.3.5.5 Italy

11.3.5.5.1 Italy Biomanufacturing Viral Detection and Quantification Market (by Offering Type)

11.3.5.5.2 Italy Biomanufacturing Viral Detection and Quantification Market (by Technology)

11.3.5.5.3 Italy Biomanufacturing Viral Detection and Quantification Market (by Application)

11.3.5.5.4 Italy Biomanufacturing Viral Detection and Quantification Market (by End User)

11.3.5.6 Rest-of-Europe

11.3.5.6.1 Rest-of-Europe Biomanufacturing Viral Detection and Quantification Market (by Offering Type)

11.3.5.6.2 Rest-of-Europe Biomanufacturing Viral Detection and Quantification Market (by Technology)

11.3.5.6.3 Rest-of-Europe Biomanufacturing Viral Detection and Quantification Market (by Application)

11.3.5.6.4 Rest-of-Europe Biomanufacturing Viral Detection and Quantification Market (by End User)

11.4 Asia-Pacific

11.4.1 Asia-Pacific Biomanufacturing Viral Detection and Quantification Market (by Offering Type)

11.4.2 Asia-Pacific Biomanufacturing Viral Detection and Quantification Market (by Technology)

11.4.3 Asia-Pacific Biomanufacturing Viral Detection and Quantification Market (by Application)

11.4.4 Asia-Pacific Biomanufacturing Viral Detection and Quantification Market (by End User)

11.4.5 Asia-Pacific Biomanufacturing Viral Detection and Quantification Market (by Country)

11.4.5.1 China

11.4.5.1.1 China Biomanufacturing Viral Detection and Quantification Market (by Offering Type)

11.4.5.1.2 China Biomanufacturing Viral Detection and Quantification Market (by Technology)

11.4.5.1.3 China Biomanufacturing Viral Detection and Quantification Market (by

Application)

11.4.5.1.4 China Biomanufacturing Viral Detection and Quantification Market (by End User)

11.4.5.2 Japan

11.4.5.2.1 Japan Biomanufacturing Viral Detection and Quantification Market (by Offering Type)

11.4.5.2.2 Japan Biomanufacturing Viral Detection and Quantification Market (by Technology)

11.4.5.2.3 Japan Biomanufacturing Viral Detection and Quantification Market (by Application)

11.4.5.2.4 Japan Biomanufacturing Viral Detection and Quantification Market (by End User)

11.4.5.3 India

11.4.5.3.1 India Biomanufacturing Viral Detection and Quantification Market (by Offering Type)

11.4.5.3.2 India Biomanufacturing Viral Detection and Quantification Market (by Technology)

11.4.5.3.3 India Biomanufacturing Viral Detection and Quantification Market (by Application)

11.4.5.3.4 India Biomanufacturing Viral Detection and Quantification Market (by End User)

11.4.5.4 Australia

11.4.5.4.1 Australia Biomanufacturing Viral Detection and Quantification Market (by Offering Type)

11.4.5.4.2 Australia Biomanufacturing Viral Detection and Quantification Market (by Technology)

11.4.5.4.3 Australia Biomanufacturing Viral Detection and Quantification Market (by Application)

11.4.5.4.4 Australia Biomanufacturing Viral Detection and Quantification Market (by End User)

11.4.5.5 South Korea

11.4.5.5.1 South Korea Biomanufacturing Viral Detection and Quantification Market (by Offering Type)

11.4.5.5.2 South Korea Biomanufacturing Viral Detection and Quantification Market (by Technology)

11.4.5.5.3 South Korea Biomanufacturing Viral Detection and Quantification Market (by Application)

11.4.5.5.4 South Korea Biomanufacturing Viral Detection and Quantification Market (by End User)

11.4.5.6 Rest-of-Asia-Pacific

11.4.5.6.1 Rest-of-Asia-Pacific Biomanufacturing Viral Detection and Quantification Market (by Offering Type)

11.4.5.6.2 Rest-of-Asia-Pacific Biomanufacturing Viral Detection and Quantification Market (by Technology)

11.4.5.6.3 Rest-of-Asia-Pacific Biomanufacturing Viral Detection and Quantification Market (by Application)

11.4.5.6.4 Rest-of-Asia-Pacific Biomanufacturing Viral Detection and Quantification Market (by End User)

11.5 Latin America

11.5.1 Latin America Biomanufacturing Viral Detection and Quantification Market (by Offering Type)

11.5.2 Latin America Biomanufacturing Viral Detection and Quantification Market (by Technology)

11.5.3 Latin America Biomanufacturing Viral Detection and Quantification Market (by Application)

11.5.4 Latin America Biomanufacturing Viral Detection and Quantification Market (by End User)

11.5.4.1 Brazil

11.5.4.1.1 Brazil Biomanufacturing Viral Detection and Quantification Market (by Offering Type)

11.5.4.1.2 Brazil Biomanufacturing Viral Detection and Quantification Market (by Technology)

11.5.4.1.3 Brazil Biomanufacturing Viral Detection and Quantification Market (by Application)

11.5.4.1.4 Brazil Biomanufacturing Viral Detection and Quantification Market (by End User)

11.5.4.2 Mexico

11.5.4.2.1 Mexico Biomanufacturing Viral Detection and Quantification Market (by Offering Type)

11.5.4.2.2 Mexico Biomanufacturing Viral Detection and Quantification Market (by Technology)

11.5.4.2.3 Mexico Biomanufacturing Viral Detection and Quantification Market (by Application)

11.5.4.2.4 Mexico Biomanufacturing Viral Detection and Quantification Market (by End User)

11.5.4.3 Rest-of-Latin America

11.5.4.3.1 Rest-of-Latin America Biomanufacturing Viral Detection and Quantification Market (by Offering Type)

11.5.4.3.2 Rest-of-Latin America Biomanufacturing Viral Detection and Quantification Market (by Technology)

11.5.4.3.3 Rest-of-Latin America Biomanufacturing Viral Detection and Quantification Market (by Application)

11.5.4.3.4 Rest-of-Latin America Biomanufacturing Viral Detection and Quantification Market (by End User)

11.6 Middle East and Africa

11.6.1 Middle East and Africa Biomanufacturing Viral Detection and Quantification Market (by Offering Type)

11.6.2 Middle East and Africa Biomanufacturing Viral Detection and Quantification Market (by Technology)

11.6.3 Middle East and Africa Biomanufacturing Viral Detection and Quantification Market (by Application)

11.6.4 Middle East and Africa Biomanufacturing Viral Detection and Quantification Market (by End User)

11.6.4.1 South Africa

11.6.4.1.1 South Africa Biomanufacturing Viral Detection and Quantification Market (by Offering Type)

11.6.4.1.2 South Africa Biomanufacturing Viral Detection and Quantification Market (by Technology)

11.6.4.1.3 South Africa Biomanufacturing Viral Detection and Quantification Market (by Application)

11.6.4.1.4 South Africa Biomanufacturing Viral Detection and Quantification Market (by End User)

11.6.4.2 Israel

11.6.4.2.1 Israel Biomanufacturing Viral Detection and Quantification Market (by Offering Type)

11.6.4.2.2 Israel Biomanufacturing Viral Detection and Quantification Market (by Technology)

11.6.4.2.3 Israel Biomanufacturing Viral Detection and Quantification Market (by Application)

11.6.4.2.4 Israel Biomanufacturing Viral Detection and Quantification Market (by End User)

11.6.4.3 U.A.E.

11.6.4.3.1 U.A.E. Biomanufacturing Viral Detection and Quantification Market (by Offering Type)

11.6.4.3.2 U.A.E. Biomanufacturing Viral Detection and Quantification Market (by Technology)

11.6.4.3.3 U.A.E. Biomanufacturing Viral Detection and Quantification Market (by

Application)

11.6.4.3.4 U.A.E. Biomanufacturing Viral Detection and Quantification Market (by End User)

11.6.4.4 Saudi Arabia

11.6.4.4.1 Saudi Arabia Biomanufacturing Viral Detection and Quantification Market (by Offering Type)

11.6.4.4.2 Saudi Arabia Biomanufacturing Viral Detection and Quantification Market (by Technology)

11.6.4.4.3 Saudi Arabia Biomanufacturing Viral Detection and Quantification Market (by Application)

11.6.4.4.4 Saudi Arabia Biomanufacturing Viral Detection and Quantification Market (by End User)

11.6.4.5 Rest-of-Middle East and Africa

11.6.4.5.1 Rest-of-Middle East and Africa Biomanufacturing Viral Detection and Quantification Market (by Offering Type)

11.6.4.5.2 Rest-of-Middle East and Africa Biomanufacturing Viral Detection and Quantification Market (by Technology)

11.6.4.5.3 Rest-of-Middle East and Africa Biomanufacturing Viral Detection and Quantification Market (by Application)

11.6.4.5.4 Rest-of-Middle East and Africa Biomanufacturing Viral Detection and Quantification Market (by End User)

12 MARKETS - COMPETITIVE BENCHMARKING & COMPANY PROFILES

12.1 Overview

12.2 Company Share Analysis

12.3 Biomanufacturing Viral Detection and Quantification Ecosystem Active Players

12.4 Danaher Corporation

12.4.1 Company Overview

12.4.2 Role of Danaher Corporation in the Global Biomanufacturing Viral Detection and Quantification Market

12.4.3 Key Competitors

12.4.4 Financials

12.4.5 Key Insights about the Financial Health of the Company

12.4.6 Analyst Perspective

12.5 Merck KGaA

12.5.1 Company Overview

12.5.2 Role of Merck KGaA in the Global Biomanufacturing Viral Detection and Quantification Market

- 12.5.3 Key Competitors
- 12.5.4 Financials
- 12.5.5 Key Insights about the Financial Health of the Company
- 12.5.6 Analyst Perspective
- 12.6 New England Biolabs
 - 12.6.1 Company Overview
 - 12.6.2 Role of New England Biolabs in the Global Biomanufacturing Viral Detection and Quantification Market
 - 12.6.3 Key Competitors
 - 12.6.4 Analyst Perspective
- 12.7 TAKARA HOLDINGS INC.
 - 12.7.1 Company Overview
 - 12.7.2 Role of TAKARA HOLDINGS INC. in the Global Biomanufacturing Viral Detection and Quantification Market
 - 12.7.3 Key Competitors
 - 12.7.4 Financials
 - 12.7.5 Key Insights about the Financial Health of the Company
 - 12.7.6 Analyst Perspective
- 12.8 Thermo Fisher Scientific Inc.
 - 12.8.1 Company Overview
 - 12.8.2 Role of Thermo Fisher Scientific Inc. in the Global Biomanufacturing Viral Detection and Quantification Market
 - 12.8.3 Key Competitors
 - 12.8.4 Financials
 - 12.8.5 Key Insights about the Financial Health of the Company
 - 12.8.6 Analyst Perspective
- 12.9 Agilent Technologies, Inc.
 - 12.9.1 Company Overview
 - 12.9.2 Role of Agilent Technologies, Inc. in the Global Biomanufacturing Viral Detection and Quantification Market
 - 12.9.3 Key Competitors
 - 12.9.4 Financials
 - 12.9.5 Key Insights about the Financial Health of the Company
 - 12.9.6 Analyst Perspective
- 12.1 Sartorius AG
 - 12.10.1 Company Overview
 - 12.10.2 Role of Sartorius AG in the Global Biomanufacturing Viral Detection and Quantification Market
 - 12.10.3 Key Competitors

- 12.10.4 Financials
- 12.10.5 Analyst Perspective
- 12.11 Charles River Laboratories
 - 12.11.1 Company Overview
 - 12.11.2 Role of Charles River Laboratories in the Global Biomanufacturing Viral Detection and Quantification Market
- 12.11.3 Key Competitors
- 12.11.4 Financials
- 12.11.5 Analyst Perspective
- 12.12 Bio-Rad Laboratories, Inc.
 - 12.12.1 Company Overview
 - 12.12.2 Role of Bio-Rad Laboratories, Inc. in the Global Biomanufacturing Viral Detection and Quantification Market
- 12.12.3 Key Competitors
- 12.12.4 Financials
- 12.12.5 Key Insights about the Financial Health of the Company
- 12.12.6 Analyst Perspective
- 12.13 PerkinElmer, Inc.
 - 12.13.1 Company Overview
 - 12.13.2 Role of PerkinElmer, Inc. in the Global Biomanufacturing Viral Detection and Quantification Market
- 12.13.1 Key Competitors
- 12.13.2 Financials
- 12.13.3 Key Insights about the Financial Health of the Company
- 12.13.4 Analyst Perspective
- 12.14 Promega Corporation
 - 12.14.1 Company Overview
 - 12.14.2 Role of Promega Corporation in the Global Biomanufacturing Viral Detection and Quantification Market
- 12.14.3 Key Competitors
- 12.14.4 Analyst Perspective
- 12.15 QIAGEN N.V.
 - 12.15.1 Company Overview
 - 12.15.2 Role of QIAGEN N.V. in the Global Biomanufacturing Viral Detection and Quantification Market
- 12.15.3 Key Competitors
- 12.15.4 Financials
- 12.15.5 Key Insights about the Financial Health of the Company
- 12.15.6 Analyst Perspective

12.16 Genscript Biotech Corporation

12.16.1 Company Overview

12.16.2 Role of Genscript Biotech Corporation in the Global Biomanufacturing Viral Detection and Quantification Market

12.16.3 Key Competitors

12.16.4 Financials

12.16.5 Key Insights about the Financial Health of the Company

12.16.6 Analyst Perspective

12.17 Norgen Biotek Corp.

12.17.1 Company Overview

12.17.2 Role of Norgen Biotek Corp. in the Global Biomanufacturing Viral Detection and Quantification Market

12.17.3 Key Competitors

12.17.4 Analyst Perspective

List Of Figures

LIST OF FIGURES

Figure 1: Global Biomanufacturing Viral Detection and Quantification Market, \$Billion, 2022-2032

Figure 2: Global Biomanufacturing Viral Detection and Quantification Market: Drivers, Restraints, and Opportunities

Figure 3: Global Biomanufacturing Viral Detection and Quantification Market (by Offering Type), \$Billion, 2022-2032

Figure 4: Global Biomanufacturing Viral Detection and Quantification Market (by Technology), \$Billion, 2022-2032

Figure 5: Global Biomanufacturing Viral Detection and Quantification Market (by Application), \$Billion, 2022-2032

Figure 6: Global Biomanufacturing Viral Detection and Quantification Market (by Region), \$Billion, 2022 and 2032

Figure 7: Global Biomanufacturing Viral Detection and Quantification Market Segmentation

Figure 8: Global Biomanufacturing Viral Detection and Quantification Market: Research Methodology

Figure 9: Primary Research Methodology

Figure 10: Bottom-Up Approach (Segment-Wise Analysis)

Figure 11: Top-Down Approach (Segment-Wise Analysis)

Figure 12: Global Biomanufacturing Viral Detection and Quantification Market, \$Billion, 2022-2032

Figure 13: Steps Involved in FDA Regulation

Figure 14: Steps for Obtaining Marketing Authorization

Figure 15: Global Biomanufacturing Viral Detection and Quantification Market (by Offering Type)

Figure 16: Global Biomanufacturing Viral Detection and Quantification Market (Consumables), \$Billion, 2022-2032

Figure 17: Global Biomanufacturing Viral Detection and Quantification Market (Kits and Assays), \$Billion, 2022-2032

Figure 18: Global Biomanufacturing Viral Detection and Quantification Market (Accessories), \$Billion, 2022-2032

Figure 19: Global Biomanufacturing Viral Detection and Quantification Market (Instruments), \$Billion, 2022-2032

Figure 20: Global Biomanufacturing Viral Detection and Quantification Market (Services), \$Billion, 2022-2032

Figure 21: Global Biomanufacturing Viral Detection and Quantification Market (by Technology)

Figure 22: Steps Involved in PCR for Viral Detection and Quantification

Figure 23: Global Biomanufacturing Viral Detection and Quantification Market (PCR), \$Billion, 2022-2032

Figure 24: Steps Involved in Flow Cytometry for Viral Detection and Quantification

Figure 25: Global Biomanufacturing Viral Detection and Quantification Market (Flow Cytometry), \$Billion, 2022-2032

Figure 26: Steps Involved in ELISA for Viral Detection and Quantification

Figure 27: Global Biomanufacturing Viral Detection and Quantification Market (ELISA), \$Billion, 2022-2032

Figure 28: Global Biomanufacturing Viral Detection and Quantification Market (Plaque Assay), \$Billion, 2022-2032

Figure 29: Global Biomanufacturing Viral Detection and Quantification Market (Others), \$Billion, 2022-2032

Figure 30: Global Biomanufacturing Viral Detection and Quantification Market (by Application)

Figure 31: Global Biomanufacturing Viral Detection and Quantification Market (Blood and Blood Products Manufacturing), \$Billion, 2022-2032

Figure 32: Global Biomanufacturing Viral Detection and Quantification Market (Cellular and Gene Therapy Products Manufacturing), \$Billion, 2022-2032

Figure 33: Global Biomanufacturing Viral Detection and Quantification Market (Stem Cell Products Manufacturing), \$Billion, 2022-2032

Figure 34: Global Biomanufacturing Viral Detection and Quantification Market (Tissue and Tissue Products Manufacturing), \$Billion, 2022-2032

Figure 35: Global Biomanufacturing Viral Detection and Quantification Market (Vaccines and Therapeutics Manufacturing), \$Billion, 2022-2032

Figure 36: Global Biomanufacturing Viral Detection and Quantification Market (by End User)

Figure 37: Global Biomanufacturing Viral Detection and Quantification Market (Life Science Companies), \$Billion, 2022-2032

Figure 38: Use of Viral Detection and Quantification in Testing Laboratories

Figure 39: Global Biomanufacturing Viral Detection and Quantification Market (Testing Laboratories) \$Billion, 2022-2032

Figure 40: Global Biomanufacturing Viral Detection and Quantification Market (CROs and CDMOs) \$Billion, 2022-2032

Figure 41: Global Biomanufacturing Viral Detection and Quantification Market (by Region)

Figure 42: North America: Market Dynamics

Figure 43: North America Biomanufacturing Viral Detection and Quantification Market, \$Billion, 2022-2032

Figure 44: North America Biomanufacturing Viral Detection and Quantification Market (by Offering Type), \$Million, 2022-2032

Figure 45: North America Biomanufacturing Viral Detection and Quantification Market (by Technology), \$Million, 2022-2032

Figure 46: North America Biomanufacturing Viral Detection and Quantification Market (by Application), \$Million, 2022-2032

Figure 47: North America Biomanufacturing Viral Detection and Quantification Market (by End User), \$Million, 2022-2032

Figure 48: U.S. Biomanufacturing Viral Detection and Quantification Market, \$Million, 2022-2032

Figure 49: U.S. Biomanufacturing Viral Detection and Quantification Market (by Offering Type), \$Million, 2022-2032

Figure 50: U.S. Biomanufacturing Viral Detection and Quantification Market (by Technology), \$Million, 2022-2032

Figure 51: U.S. Biomanufacturing Viral Detection and Quantification Market (by Application), \$Million, 2022-2032

Figure 52: U.S. Biomanufacturing Viral Detection and Quantification Market (by End User), \$Million, 2022-2032

Figure 53: Canada Biomanufacturing Viral Detection and Quantification Market, \$Million, 2022-2032

Figure 54: Canada Biomanufacturing Viral Detection and Quantification Market (by Offering Type), \$Million, 2022-2032

Figure 55: Canada Biomanufacturing Viral Detection and Quantification Market (by Technology), \$Million, 2022-2032

Figure 56: Canada Biomanufacturing Viral Detection and Quantification Market (by Application), \$Million, 2022-2032

Figure 57: Canada Biomanufacturing Viral Detection and Quantification Market (by End User), \$Million, 2022-2032

Figure 58: Europe: Market Dynamics

Figure 59: Europe Biomanufacturing Viral Detection and Quantification Market, \$Billion, 2022-2032

Figure 60: Europe Biomanufacturing Viral Detection and Quantification Market (by Offering Type), \$Million, 2022-2032

Figure 61: Europe Biomanufacturing Viral Detection and Quantification Market (by Technology), \$Million, 2022-2032

Figure 62: Europe Biomanufacturing Viral Detection and Quantification Market (by Application), \$Million, 2022-2032

Figure 63: Europe Biomanufacturing Viral Detection and Quantification Market (by End User), \$Million, 2022-2032

Figure 64: Germany Biomanufacturing Viral Detection and Quantification Market, \$Million, 2022-2032

Figure 65: Germany Biomanufacturing Viral Detection and Quantification Market (by Offering Type), \$Million, 2022-2032

Figure 66: Germany Biomanufacturing Viral Detection and Quantification Market (by Technology), \$Million, 2022-2032

Figure 67: Germany Biomanufacturing Viral Detection and Quantification Market (by Application), \$Million, 2022-2032

Figure 68: Germany Biomanufacturing Viral Detection and Quantification Market (by End User), \$Million, 2022-2032

Figure 69: U.K. Biomanufacturing Viral Detection and Quantification Market, \$Million, 2022-2032

Figure 70: U.K. Biomanufacturing Viral Detection and Quantification Market (by Offering Type), \$Million, 2022-2032

Figure 71: U.K. Biomanufacturing Viral Detection and Quantification Market (by Technology), \$Million, 2022-2032

Figure 72: U.K. Biomanufacturing Viral Detection and Quantification Market (by Application), \$Million, 2022-2032

Figure 73: U.K. Biomanufacturing Viral Detection and Quantification Market (by End User), \$Million, 2022-2032

Figure 74: France Biomanufacturing Viral Detection and Quantification Market, \$Million, 2022-2032

Figure 75: France Biomanufacturing Viral Detection and Quantification Market (by Offering Type), \$Million, 2022-2032

Figure 76: France Biomanufacturing Viral Detection and Quantification Market (by Technology), \$Million, 2022-2032

Figure 77: France Biomanufacturing Viral Detection and Quantification Market (by Application), \$Million, 2022-2032

Figure 78: France Biomanufacturing Viral Detection and Quantification Market (by End User), \$Million, 2022-2032

Figure 79: Spain Biomanufacturing Viral Detection and Quantification Market, \$Million, 2022-2032

Figure 80: Spain Biomanufacturing Viral Detection and Quantification Market (by Offering Type), \$Million, 2022-2032

Figure 81: Spain Biomanufacturing Viral Detection and Quantification Market (by Technology), \$Million, 2022-2032

Figure 82: Spain Biomanufacturing Viral Detection and Quantification Market (by

Application), \$Million, 2022-2032

Figure 83: Spain Biomanufacturing Viral Detection and Quantification Market (by End User), \$Million, 2022-2032

Figure 84: Italy Biomanufacturing Viral Detection and Quantification Market, \$Million, 2022-2032

Figure 85: Italy Biomanufacturing Viral Detection and Quantification Market (by Offering Type), \$Million, 2022-2032

Figure 86: Italy Biomanufacturing Viral Detection and Quantification Market (by Technology), \$Million, 2022-2032

Figure 87: Italy Biomanufacturing Viral Detection and Quantification Market (by Application), \$Million, 2022-2032

Figure 88: Italy Biomanufacturing Viral Detection and Quantification Market (by End User), \$Million, 2022-2032

Figure 89: Rest-of-Europe Biomanufacturing Viral Detection and Quantification Market, \$Million, 2022-2032

Figure 90: Rest-of-Europe Biomanufacturing Viral Detection and Quantification Market (by Offering Type), \$Million, 2022-2032

Figure 91: Rest-of-Europe Biomanufacturing Viral Detection and Quantification Market (by Technology), \$Million, 2022-2032

Figure 92: Rest-of-Europe Biomanufacturing Viral Detection and Quantification Market (by Application), \$Million, 2022-2032

Figure 93: Rest-of-Europe Biomanufacturing Viral Detection and Quantification Market (by End User), \$Million, 2022-2032

Figure 94: Measures Undertaken by APAC to Enhance its Viral Testing Capacity

Figure 95: Asia-Pacific: Market Dynamics

Figure 96: Asia-Pacific Biomanufacturing Viral Detection and Quantification Market, \$Billion, 2022-2032

Figure 97: Asia-Pacific Biomanufacturing Viral Detection and Quantification Market (by Offering Type), \$Million, 2022-2032

Figure 98: Asia-Pacific Biomanufacturing Viral Detection and Quantification Market (by Technology), \$Million, 2022-2032

Figure 99: Asia-Pacific Biomanufacturing Viral Detection and Quantification Market (by Application), \$Million, 2022-2032

Figure 100: Asia-Pacific Biomanufacturing Viral Detection and Quantification Market (by End User), \$Million, 2022-2032

Figure 101: China Biomanufacturing Viral Detection and Quantification Market, \$Million, 2022-2032

Figure 102: China Biomanufacturing Viral Detection and Quantification Market (by Offering Type), \$Million, 2022-2032

Figure 103: China Biomanufacturing Viral Detection and Quantification Market (by Technology), \$Million, 2022-2032

Figure 104: China Biomanufacturing Viral Detection and Quantification Market (by Application), \$Million, 2022-2032

Figure 105: China Biomanufacturing Viral Detection and Quantification Market (by End User), \$Million, 2022-2032

Figure 106: Japan Biomanufacturing Viral Detection and Quantification Market, \$Million, 2022-2032

Figure 107: Japan Biomanufacturing Viral Detection and Quantification Market (by Offering Type), \$Million, 2022-2032

Figure 108: Japan Biomanufacturing Viral Detection and Quantification Market (by Technology), \$Million, 2022-2032

Figure 109: Japan Biomanufacturing Viral Detection and Quantification Market (by Application), \$Million, 2022-2032

Figure 110: Japan Biomanufacturing Viral Detection and Quantification Market (by End User), \$Million, 2022-2032

Figure 111: India Biomanufacturing Viral Detection and Quantification Market, \$Million, 2022-2032

Figure 112: India Biomanufacturing Viral Detection and Quantification Market (by Offering Type), \$Million, 2022-2032

Figure 113: India Biomanufacturing Viral Detection and Quantification Market (by Technology), \$Million, 2022-2032

Figure 114: India Biomanufacturing Viral Detection and Quantification Market (by Application), \$Million, 2022-2032

Figure 115: India Biomanufacturing Viral Detection and Quantification Market (by End User), \$Million, 2022-2032

Figure 116: Australia Biomanufacturing Viral Detection and Quantification Market, \$Million, 2022-2032

Figure 117: Australia Biomanufacturing Viral Detection and Quantification Market (by Offering Type), \$Million, 2022-2032

Figure 118: Australia Biomanufacturing Viral Detection and Quantification Market (by Technology), \$Million, 2022-2032

Figure 119: Australia Biomanufacturing Viral Detection and Quantification Market (by Application), \$Million, 2022-2032

Figure 120: Australia Biomanufacturing Viral Detection and Quantification Market (by End User), \$Million, 2022-2032

Figure 121: South Korea Biomanufacturing Viral Detection and Quantification Market, \$Million, 2022-2032

Figure 122: South Korea Biomanufacturing Viral Detection and Quantification Market

(by Offering Type), \$Million, 2022-2032

Figure 123: South Korea Biomanufacturing Viral Detection and Quantification Market (by Technology), \$Million, 2022-2032

Figure 124: South Korea Biomanufacturing Viral Detection and Quantification Market (by Application), \$Million, 2022-2032

Figure 125: South Korea Biomanufacturing Viral Detection and Quantification Market (by End User), \$Million, 2022-2032

Figure 126: Rest-of-Asia-Pacific Biomanufacturing Viral Detection and Quantification Market, \$Million, 2022-2032

Figure 127: Rest-of-Asia-Pacific Biomanufacturing Viral Detection and Quantification Market (by Offering Type), \$Million, 2022-2032

Figure 128: Rest-of-Asia-Pacific Biomanufacturing Viral Detection and Quantification Market (by Technology), \$Million, 2022-2032

Figure 129: Rest-of-Asia-Pacific Biomanufacturing Viral Detection and Quantification Market (by Application), \$Million, 2022-2032

Figure 130: Rest-of-Asia-Pacific Biomanufacturing Viral Detection and Quantification Market (by End User), \$Million, 2022-2032

Figure 131: Latin America: Market Dynamics

Figure 132: Latin America Biomanufacturing Viral Detection and Quantification Market, \$Billion, 2022-2032

Figure 133: Latin America Biomanufacturing Viral Detection and Quantification Market (by Offering Type), \$Million, 2022-2032

Figure 134: Latin America Biomanufacturing Viral Detection and Quantification Market (by Technology), \$Million, 2022-2032

Figure 135: Latin America Biomanufacturing Viral Detection and Quantification Market (by Application), \$Million, 2022-2032

Figure 136: Latin America Biomanufacturing Viral Detection and Quantification Market (by End User), \$Million, 2022-2032

Figure 137: Brazil Biomanufacturing Viral Detection and Quantification Market, \$Million, 2022-2032

Figure 138: Brazil Biomanufacturing Viral Detection and Quantification Market (by Offering Type), \$Million, 2022-2032

Figure 139: Brazil Biomanufacturing Viral Detection and Quantification Market (by Technology), \$Million, 2022-2032

Figure 140: Brazil Biomanufacturing Viral Detection and Quantification Market (by Application), \$Million, 2022-2032

Figure 141: Brazil Biomanufacturing Viral Detection and Quantification Market (by End User), \$Million, 2022-2032

Figure 142: Mexico Biomanufacturing Viral Detection and Quantification Market,

\$Million, 2022-2032

Figure 143: Mexico Biomanufacturing Viral Detection and Quantification Market (by Offering Type), \$Million, 2022-2032

Figure 144: Mexico Biomanufacturing Viral Detection and Quantification Market (by Technology), \$Million, 2022-2032

Figure 145: Mexico Biomanufacturing Viral Detection and Quantification Market (by Application), \$Million, 2022-2032

Figure 146: Mexico Biomanufacturing Viral Detection and Quantification Market (by End User), \$Million, 2022-2032

Figure 147: Rest-of-Latin America Biomanufacturing Viral Detection and Quantification Market, \$Million, 2022-2032

Figure 148: Rest-of-Latin America Biomanufacturing Viral Detection and Quantification Market (by Offering Type), \$Million, 2022-2032

Figure 149: Rest-of-Latin America Biomanufacturing Viral Detection and Quantification Market (by Technology), \$Million, 2022-2032

Figure 150: Rest-of-Latin America Biomanufacturing Viral Detection and Quantification Market (by Application), \$Million, 2022-2032

Figure 151: Rest-of-Latin America Biomanufacturing Viral Detection and Quantification Market (by End User), \$Million, 2022-2032

Figure 152: Middle East and Africa: Market Dynamics

Figure 153: Middle East and Africa Biomanufacturing Viral Detection and Quantification Market, \$Billion, 2022-2032

Figure 154: Middle East and Africa Biomanufacturing Viral Detection and Quantification Market (by Offering Type), \$Million, 2022-2032

Figure 155: Middle East and Africa Biomanufacturing Viral Detection and Quantification Market (by Technology), \$Million, 2022-2032

Figure 156: Middle East and Africa Biomanufacturing Viral Detection and Quantification Market (by Application), \$Million, 2022-2032

Figure 157: Middle East and Africa Biomanufacturing Viral Detection and Quantification Market (by End User), \$Million, 2022-2032

Figure 158: South Africa Biomanufacturing Viral Detection and Quantification Market, \$Million, 2022-2032

Figure 159: South Africa Biomanufacturing Viral Detection and Quantification Market (by Offering Type), \$Million, 2022-2032

Figure 160: South Africa Biomanufacturing Viral Detection and Quantification Market (by Technology), \$Million, 2022-2032

Figure 161: South Africa Biomanufacturing Viral Detection and Quantification Market (by Application), \$Million, 2022-2032

Figure 162: South Africa Biomanufacturing Viral Detection and Quantification Market (by

End User), \$Million, 2022-2032

Figure 163: Israel Biomanufacturing Viral Detection and Quantification Market, \$Million, 2022-2032

Figure 164: Israel Biomanufacturing Viral Detection and Quantification Market (by Offering Type), \$Million, 2022-2032

Figure 165: Israel Biomanufacturing Viral Detection and Quantification Market (by Technology), \$Million, 2022-2032

Figure 166: Israel Biomanufacturing Viral Detection and Quantification Market (by Application), \$Million, 2022-2032

Figure 167: Israel Biomanufacturing Viral Detection and Quantification Market (by End User), \$Million, 2022-2032

Figure 168: U.A.E. Biomanufacturing Viral Detection and Quantification Market, \$Million, 2022-2032

Figure 169: U.A.E. Biomanufacturing Viral Detection and Quantification Market (by Offering Type), \$Million, 2022-2032

Figure 170: U.A.E. Biomanufacturing Viral Detection and Quantification Market (by Technology), \$Million, 2022-2032

Figure 171: U.A.E. Biomanufacturing Viral Detection and Quantification Market (by Application), \$Million, 2022-2032

Figure 172: U.A.E. Biomanufacturing Viral Detection and Quantification Market (by End User), \$Million, 2022-2032

Figure 173: Saudi Arabia Biomanufacturing Viral Detection and Quantification Market, \$Million, 2022-2032

Figure 174: Saudi Arabia Biomanufacturing Viral Detection and Quantification Market (by Offering Type), \$Million, 2022-2032

Figure 175: Saudi Arabia Biomanufacturing Viral Detection and Quantification Market (by Technology), \$Million, 2022-2032

Figure 176: Saudi Arabia Biomanufacturing Viral Detection and Quantification Market (by Application), \$Million, 2022-2032

Figure 177: Saudi Arabia Biomanufacturing Viral Detection and Quantification Market (by End User), \$Million, 2022-2032

Figure 178: Rest-of-Middle East and Africa Biomanufacturing Viral Detection and Quantification Market, \$Million, 2022-2032

Figure 179: Rest-of-Middle East and Africa Biomanufacturing Viral Detection and Quantification Market (by Offering Type), \$Million, 2022-2032

Figure 180: Rest-of-Middle East and Africa Biomanufacturing Viral Detection and Quantification Market (by Technology), \$Million, 2022-2032

Figure 181: Rest-of-Middle East and Africa Biomanufacturing Viral Detection and Quantification Market (by Application), \$Million, 2022-2032

Figure 182: Rest-of-Middle East and Africa Biomanufacturing Viral Detection and Quantification Market (by End User), \$Million, 2022-2032

Figure 183: Global Biomanufacturing Viral Detection and Quantification Market, Total Number of Companies Profiled

Figure 184: Global Biomanufacturing Viral Detection and Quantification Market, Company Share Analysis, % Share, 2022

Figure 185: Danaher Corporation: Product Portfolio

Figure 186: Danaher Corporation: Overall Financials, \$Million, 2020-2022

Figure 187: Danaher Corporation: Revenue (by Segment), \$Million, 2020-2022

Figure 188: Danaher Corporation: Revenue (by Region), \$Million, 2020-2022

Figure 189: Danaher Corporation: R&D Expenditure, \$Million, 2020-2022

Figure 190: Merck KGaA: Product Portfolio

Figure 191: Merck KGaA: Overall Financials, \$Million, 2020-2022

Figure 192: Merck KGaA: Revenue (by Segment), \$Million, 2020-2022

Figure 193: Merck KGaA: Revenue (by Region), \$Million, 2020-2022

Figure 194: Merck KGaA: R&D Expenditure, \$Million, 2020-2022

Figure 195: New England Biolabs: Product Portfolio

Figure 196: TAKARA HOLDINGS INC.: Product Portfolio

Figure 197: TAKARA HOLDINGS INC.: Overall Financials, \$Million, 2020-2022

Figure 198: TAKARA HOLDINGS INC.: Revenue (by Region), \$Million, 2020-2022

Figure 199: TAKARA HOLDINGS INC.: R&D Expenditure, \$Million, 2020-2022

Figure 200: Thermo Fisher Scientific Inc.: Product Portfolio

Figure 201: Thermo Fisher Scientific Inc.: Overall Financials, \$Million, 2020-2022

Figure 202: Thermo Fisher Scientific Inc.: Revenue (by Segment), \$Million, 2020-2022

Figure 203: Thermo Fisher Scientific Inc.: Revenue (by Region), \$Million, 2020-2022

Figure 204: Thermo Fisher Scientific Inc.: R&D Expenditure, \$Million, 2020-2022

Figure 205: Agilent Technologies, Inc.: Product Portfolio

Figure 206: Agilent Technologies, Inc.: Overall Financials, \$Million, 2020-2022

Figure 207: Agilent Technologies, Inc.: Revenue (by Segment), \$Million, 2020-2022

Figure 208: Agilent Technologies, Inc.: Revenue (by Region), \$Million, 2020-2022

Figure 209: Agilent Technologies, Inc.: R&D Expenditure, \$Million, 2020-2022

Figure 210: Sartorius AG: Product Portfolio

Figure 211: Sartorius AG: Overall Financials, \$Million, 2020-2022

Figure 212: Sartorius AG: Revenue (by Segment), \$Million, 2020-2022

Figure 213: Sartorius AG: Revenue (by Region), \$Million, 2020-2022

Figure 214: Charles River Laboratories: Product Portfolio

Figure 215: Charles River Laboratories: Overall Financials, \$Million, 2020-2022

Figure 216: Charles River Laboratories: Revenue (by Segment), \$Million, 2020-2022

Figure 217: Charles River Laboratories: Revenue (by Region), \$Million, 2020-2022

- Figure 218: Bio-Rad Laboratories, Inc.: Product Portfolio
- Figure 219: Bio-Rad Laboratories, Inc.: Overall Financials, \$Million, 2020-2022
- Figure 220: Bio-Rad Laboratories, Inc.: Revenue (by Segment), \$Million, 2020-2022
- Figure 221: Bio-Rad Laboratories, Inc.: Revenue (by Region), \$Million, 2020-2022
- Figure 222: Bio-Rad Laboratories, Inc.: R&D Expenditure, \$Million, 2020-2022
- Figure 223: PerkinElmer, Inc.: Product Portfolio
- Figure 224: PerkinElmer, Inc.: Overall Financials, \$Million, 2021-2023
- Figure 225: PerkinElmer, Inc.: Revenue (by Segment), \$Million, 2021-2023
- Figure 226: PerkinElmer, Inc.: Revenue (by Region), \$Million, 2021-2023
- Figure 227: PerkinElmer, Inc.: R&D Expenditure, \$Million, 2021-2023
- Figure 228: Promega Corporation: Product Portfolio
- Figure 229: QIAGEN N.V.: Product Portfolio
- Figure 230: QIAGEN N.V.: Overall Financials, \$Million, 2020-2022
- Figure 231: QIAGEN N.V.: Revenue (by Segment), \$Million, 2020-2022
- Figure 232: QIAGEN N.V.: Revenue (by Region), \$Million, 2020-2022
- Figure 233: QIAGEN N.V.: R&D Expenditure, \$Million, 2020-2022
- Figure 234: Genscript Biotech Corporation: Product Portfolio
- Figure 235: Genscript Biotech Corporation: Overall Financials, \$Million, 2020-2022
- Figure 236: Genscript Biotech Corporation: Revenue (by Segment), \$Million, 2020-2022
- Figure 237: Genscript Biotech Corporation: Revenue (by Region), \$Million, 2020-2022
- Figure 238: Genscript Biotech Corporation: R&D Expenditure, \$Million, 2020-2022
- Figure 239: Norgen Biotek Corp.: Product Portfolio

List Of Tables

LIST OF TABLES

Table 1: Global Biomanufacturing Viral Detection and Quantification Market, Impact Analysis

Table 2: Key Questions Answered in the Report

Table 3: Methods of Virus Detection and Quantification

Table 4: Biomanufacturing Viral Detection and Quantification Market: Global Regulatory Scenario

Table 5: Technological Advancement in the Field of Viral Testing

Table 6: Impact Analysis: Business Drivers

Table 7: Impact Analysis: Business Restraints

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