

Life Science Instruments & Reagents Global Market - Forecast to 2023

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Abstracts

This report studies the life science instruments and reagents market over the forecast period of 2017 to 2023. The life science instruments and reagents market is expected to grow at a high single digit CAGR to reach \$81,325 million by 2023. The report covers all life instruments and associated reagents used in pharmaceuticals, biotechnology and diagnostics that help cutting edge research and innovative application. These technologies include from basic to advanced technologies including spectrometry, chromatography, microscopy, PCR, flow cytometry, laboratory centrifuges, electrophoresis, NGS, biochips, automated liquid handling and robotics, cell counters, laboratory freezers and others. This report does not include medical devices or in-vitro diagnostics market; however the usage of instruments and reagents for diagnostic purpose is included in the market. The life science instruments and reagents global market is segmented based on technology, applications, products, end users and geography.

Spectrometry global market is segmented based on technology and application. Based on technology type, spectrometry market is segmented into atomic spectrometry, mass spectrometry, molecular spectrometry. The spectrometry market by application is segmented into biotechnology and pharmaceutical. Chromatography global market is segmented based on technology type, products and application. Based on technology type, chromatography market is divided into liquid chromatography, gas chromatography, super critical fluid chromatography and thin layer chromatography. Chromatography global market by products is further segmented into instruments, columns and reagents & consumables. Chromatography market based on application is divided into drug discovery and development, manufacturing, Omics and clinical diagnostics. Microscopy global market is segmented into technology type and application. Based on technology type, microscopy is segmented into electron

microscopy, optical microscopy, confocal microscopy and scanning probe microscopy. Based on application, microscopy market is classified into cell biology, clinical/pathology, pharmacology & toxicology and clinical diagnostics.

PCR global market is segmented based on technology type, products and application. Based on technology type, PCR market is segmented into standard PCR, real-time PCR/Q PCR, Reverse Transcriptase PCR, digital PCR, assembly PCR and others. PCR market based on products is segmented into instruments, reagents & consumables, software & services. Based on application, PCR market is segmented into clinical diagnostics, industrial and others. Flow cytometry global market is segmented into technology type, products and application. Based on technology type, flow cytometry market is divided into cell based assay and bead based assay. Flow cytometry market based on products is classified into Instruments and reagents and consumables. Based on application, flow cytometry market is segmented into research, clinical diagnostics and pharmaceutical and biotechnology. Centrifugation global market is segmented based on technology type and application. Based on technology type, centrifugation market is segmented into micro-centrifugation, high-speed/super speed centrifugation, ultra-centrifugation. Centrifugation market based on application is segmented into research, diagnostics and manufacturing.

Electrophoresis global market is segmented based on technology type, products and application. Based on technology type, electrophoresis market is segmented into gel electrophoresis and capillary electrophoresis. Electrophoresis market based on products is classified into instruments and reagents & consumables. Based on application, electrophoresis market is segmented into research, diagnostics and pharmaceutical & biotechnology. NGS global market is segmented based on technology type, products and application. Based on technology type NGS market is segmented into reversible terminator sequencing, Ion Semi-conductor sequencing, sequencing by ligation, Single molecule real time sequencing and others. NGS market based on products is divided into instruments, services and NGS workflow products. Based on application, NGS market is segmented into by process and by field. NGS application by process is segmented into genomics, epigenomics, transcriptomics and others. NGS application by field is segmented into diagnostics, drug discovery and development and biomarker discovery. Biochips global market is segmented based on technology type, products and application. Based on technology type biochips market is segmented into microarray and microfluidics/lab-on-a-chip. Biochips market based on products is divided into instruments, reagents & consumables, software, services. Based on application, biochips market is segmented into diagnostics, drug discovery & development and research.

Automated liquid handling & robotics global market is segmented based on application into diagnostics, drug discovery & development and research. Others segment includes sterilization, western blotting, colorimeters, incubator and fume hoods. Depending on the end users, the life science instruments and reagents global market is sectioned into academic & government institutions, pharmaceutical & biotechnology companies, hospitals and diagnostic centers and others.

Increased focus on R&D expenditure and growth of biotechnology and pharmaceutical industries, technological advancements in analytical devices, growth in funding for research, rising demand of analytical instruments with growing research activities in proteomics, lucrative growth opportunities in emerging markets and increasing demand from various industries. Factors such as high cost of instruments, dearth of skilled professionals and stringent regulations are hampering the market growth.

Geographically, the market is segmented into North America, Europe, Asia-Pacific and Rest of the World. North America dominated the life science instruments and reagents market with the largest share which is driven by factors such as increasing awareness of technology, proximity of companies, and early adoption of latest treatments. The European market is expected to be second largest market, growing at a lower rate mainly due to the stringent regulatory environment and slow growth due to the economic crisis. The Asian market is expected to occupy third place with highest growth due increasing government funding of research, economic prosperity, early adoption of latest technology and the relaxed regulatory environment.

The life science instruments and reagents global market is a fragmented market with key players such as Agilent Technologies (U.S.), BD and Company (U.S.), Bio-Rad Laboratories (U.S.) Bruker Corporation (U.S.), Danaher Corporation (U.S.), Illumina, Inc. (U.S.), Merck KGaA (Germany), Perkinelmer, Inc. (U.S.), Roche Holdings (Switzerland), Shimadzu Corporation (Japan), Thermo Fisher Scientific, Inc. (U.S.) and Waters Corporation (U.S.).

Contents

1 EXECUTIVE SUMMARY

2 INTRODUCTION

2.1 KEY TAKEAWAYS

2.2 REPORT DESCRIPTION

2.3 MARKETS COVERED

2.4 STAKEHOLDERS

2.5 RESEARCH METHODOLOGY

2.5.1 MARKET SIZE ESTIMATION

2.5.2 MARKET CRACKDOWN & DATA TRIANGULATION

2.5.3 SECONDARY SOURCES

2.5.4 PRIMARY SOURCES

2.5.5 KEY DATA POINTS FROM SECONDARY SOURCES

2.5.6 KEY DATA POINTS FROM PRIMARY SOURCES

2.5.7 ASSUMPTIONS

3 MARKET OVERVIEW

3.1 INTRODUCTION

3.2 MARKET SEGMENTATION

3.3 FACTORS INFLUENCING MARKET

3.4 MARKET DYNAMICS

3.4.1 DRIVERS & OPPORTUNITIES

3.4.1.1 Increased focus on R&D and growth of biotechnology and pharmaceutical industries

3.4.1.2 Technological advancements in analytical devices

3.4.1.3 Growth in funding for research

3.4.1.4 Rising demand for analytical instruments with growing research activities in proteomics

3.4.1.5 Lucrative growth opportunities in emerging markets

3.4.1.6 Increasing demand from various industries

3.4.2 RESTRAINTS AND THREATS

3.4.2.1 High cost of instruments

3.4.2.2 Dearth of Skilled Professionals

3.4.2.3 Stringent regulations

3.4.2.4 Lack of IP protection in developing regions

3.5 PORTER'S FIVE FORCE ANALYSIS

3.5.1 THREAT OF NEW ENTRANTS

3.5.2 THREAT OF SUBSTITUTES

3.5.3 RIVALRY AMONG EXISTING COMPETITORS

3.5.4 BARGAINING POWER OF SUPPLIERS

3.5.5 BARGAINING POWER OF BUYERS

3.6 SUPPLY CHAIN

3.6.1 RAW MATERIALS

3.6.2 MANUFACTURERS

3.6.3 DISTRIBUTORS

3.6.4 STORAGE AND INVENTORY MANAGEMENT

3.7 REGULATORY AFFAIRS

3.7.1 NORTH AMERICA

3.7.2 EUROPE

3.7.3 CHINA

3.7.4 JAPAN

3.7.5 INDIA

3.8 GLOBAL LIFE SCIENCE INSTRUMENTS AND REAGENTS GLOBAL MARKET SHARE ANALYSIS

4 SPECTROMETRY GLOBAL MARKET

4.1 INTRODUCTION

4.2 MARKET DYNAMICS

4.2.1 DRIVERS& OPPORTUNITIES

4.2.2 RESTRAINTS & THREATS

4.3 SPECTROMETRY GLOBAL MARKET BY TECHNOLOGY TYPE

4.3.1 ATOMIC SPECTROSCOPY

4.3.2 MASS SPECTROMETRY

4.3.3 MOLECULAR SPECTROMETRY

4.4 SPECTROMETRY GLOBAL MARKET, APPLICATIONS

4.5 SPECTROMETRY MARKET SHARE ANALYSIS

5 CHROMATOGRAPHY GLOBAL MARKET

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

5.2.1 DRIVERS & OPPORTUNITIES

5.2.2 RESTRAINTS

5.3 CHROMATOGRAPHY GLOBAL MARKET, TECHNOLOGY TYPE

5.3.1 LIQUID CHROMATOGRAPHY

5.3.2 GAS CHROMATOGRAPHY

5.3.3 SUPERCRITICAL FLUID CHROMATOGRAPHY (SFC)

5.3.4 THIN LAYER CHROMATOGRAPHY

5.4 RECENT TRENDS

5.5 CHROMATOGRAPHY GLOBAL MARKET, PRODUCTS

5.5.1 INSTRUMENTS

5.5.2 COLUMNS

5.5.3 REAGENTS AND CONSUMABLES

5.6 CHROMATOGRAPHY GLOBAL MARKET, APPLICATIONS

5.7 CHROMATOGRAPHY MARKET SHARE ANALYSIS

6 MICROSCOPY GLOBAL MARKET

6.1 INTRODUCTION

6.2 MARKET DYNAMICS

6.2.1 DRIVERS & OPPORTUNITES

6.2.2 RESTRAINTS AND THREATS

6.3 MICROSCOPY GLOBAL MARKET, TECHNOLOGY TYPE

6.3.1 ELECTRON MICROSCOPY

6.3.2 OPTICAL MICROSCOPY

6.3.3 CONFOCAL MICROSCOPY

6.3.4 SCANNING PROBE MICROSCOPY

6.4 MICROSCOPY GLOBAL MARKET, APPLICATION

6.5 RECENT ADVANCEMENTS

6.6 MICROSCOPY MARKET SHARE

7 PCR TECHNIQUES GLOBAL MARKET

7.1 INTRODUCTION

7.2 MARKET DYNAMICS

7.2.1 DRIVERS AND OPPORTUNITIES

7.2.2 RESTRAINTS AND THREATS

7.3 PCR TECHNIQUES BY TYPE

7.3.1 STANDARD PCR

7.3.2 REAL TIME PCR/QPCR

7.3.3 REVERSE TRANSCRIPTASE PCR (RT PCR)

7.3.4 DIGITAL PCR

- 7.3.5 ASSEMBLY PCR
- 7.3.6 OTHER PCR
- 7.4 GLOBAL PCR PRODUCTS MARKET
 - 7.4.1 INSTRUMENTS
 - 7.4.2 REAGENTS & CONSUMABLES
 - 7.4.3 SOFTWARE
 - 7.4.4 SERVICES
- 7.5 GLOBAL PCR APPLICATION MARKET
- 7.6 PCR MARKET SHARE ANALYSIS

8 FLOW CYTOMETRY GLOBAL MARKET

- 8.1 INTRODUCTION
- 8.2 MARKET DYNAMICS
 - 8.2.1 DRIVERS & OPPORTUNITIES
 - 8.2.2 RESTRAINTS & THREATS
- 8.3 FLOW CYTOMETRY GLOBAL MARKET, TECHNOLOGY TYPE
 - 8.3.1 CELL-BASED ASSAYS
 - 8.3.2 BEAD-BASED ASSAYS
- 8.4 FLOW CYTOMETRY GLOBAL MARKET, PRODUCTS
 - 8.4.1 INSTRUMENTS
 - 8.4.2 REAGENTS AND CONSUMABLES
- 8.5 FLOW CYTOMETRY GLOBAL MARKET, APPLICATION
- 8.6 FLOW CYTOMETRY MARKET SHARE ANALYSIS

9 LABORATORY CENTRIFUGATION GLOBAL MARKET

- 9.1 INTRODUCTION
- 9.2 MARKET DYNAMICS
 - 9.2.1 DRIVERS & OPPORTUNITIES
 - 9.2.2 RESTRAINTS & THREATS
- 9.3 CENTRIFUGE MARKET, BY TYPE
 - 9.3.1 MICRO-CENTRIFUGATION
 - 9.3.2 HIGH-SPEED CENTRIFUGATION OR SUPER SPEED CENTRIFUGATION
 - 9.3.3 ULTRA-CENTRIFUGATION
 - 9.3.4 INSTRUMENTS
- 9.4 LABORATORY CENTRIFUGE GLOBAL MARKET, BY APPLICATION

10 ELECTROPHORESIS GLOBAL MARKET

- 10.1 INTRODUCTION
- 10.2 MARKET DYNAMICS
 - 10.2.1 DRIVERS & OPPORTUNITIES
 - 10.2.2 RESTRAINTS & THREATS
- 10.3 ELECTROPHORESIS GLOBAL MARKET, TECHNOLOGY TYPE
 - 10.3.1 GEL ELECTROPHORESIS
 - 10.3.2 CAPILLARY ELECTROPHORESIS
- 10.4 ELECTROPHORESIS GLOBAL MARKET, PRODUCT
 - 10.4.1 INSTRUMENTS
 - 10.4.2 REAGENTS, BUFFERS AND DYES
- 10.5 ELECTROPHORESIS GLOBAL MARKET, APPLICATION

11 NEXT GENERATION SEQUENCING GLOBAL MARKET

- 11.1 INTRODUCTION
- 11.2 MARKET DYNAMICS
 - 11.2.1 DRIVERS & OPPORTUNITIES
 - 11.2.2 RESTRAINTS AND THREATS
- 11.3 NEXT GENERATION SEQUENCING GLOBAL MARKET BY TECHNOLOGY
 - 11.3.1 REVERSIBLE TERMINATOR SEQUENCING
 - 11.3.2 ION SEMICONDUCTOR SEQUENCING
 - 11.3.3 SEQUENCING BY LIGATION
 - 11.3.4 SINGLE MOLECULE REAL TIME SEQUENCING (SMRT)
 - 11.3.5 OTHERS
- 11.4 NGS GLOBAL MARKET, PRODUCTS
 - 11.4.1 INSTRUMENTS
 - 11.4.2 SERVICES
 - 11.4.3 NGS WORKFLOW PRODUCTS
- 11.5 NGS GLOBAL MARKET, APPLICATIONS
 - 11.5.1 NGS global application market, by process
 - 11.5.2 NGS GLOBAL APPLICATION MARKET, BY FIELD TYPE
- 11.6 NGS MARKET SHARE ANALYSIS

12 BIOCHIPS GLOBAL MARKET

- 12.1 INTRODUCTION
- 12.2 MARKET DYNAMICS
- 12.3 BIOCHIPS GLOBAL MARKET, TECHNOLOGY TYPE

- 12.4 BIOCHIPS GLOBAL MARKET, BY PRODUCTS
- 12.5 BIOCHIPS GLOBAL MARKET, BY APPLICATIONS
- 12.6 RECENT DEVELOPMENTS
- 12.7 BIOCHIPS MARKET SHARE ANALYSIS

13 AUTOMATED LIQUID HANDLING AND ROBOTICS GLOBAL MARKET

- 13.1 INTRODUCTION
- 13.2 MARKET DYNAMICS
- 13.3 APPLICATION

14 CELL COUNTERS GLOBAL MARKET

15 LABORATORY FREEZERS GLOBAL MARKET

- 15.1 INTRODUCTION
- 15.2 MARKET DYNAMICS
 - 15.2.1 DRIVERS AND OPPORTUNITIES
 - 15.2.2 THREATS AND RESTRAINTS

16 OTHERS

- 16.1 INTRODUCTION
- 16.2 STERILIZATION
- 16.3 WESTERN BLOTTING
- 16.4 COLORIMETERS
- 16.5 INCUBATOR
- 16.6 FUME HOODS
- 16.7 HIGH CONTENT SCREENING (HCS)

17 LIFE SCIENCE INSTRUMENTS AND REAGENTS GLOBAL MARKET, BY END USERS

- 17.1 INTRODUCTION
- 17.2 ACADEMIC AND GOVERNMENT INSTITUTES
- 17.3 PHARMACEUTICAL AND BIOTECHNOLOGY COMPANIES
- 17.4 HOSPITAL AND DIAGNOSTIC CENTERS
- 17.5 OTHERS

18 LIFE SCIENCE INSTRUMENTS AND REAGENTS, BY REGION

- 18.1 INTRODUCTION
- 18.2 NORTH AMERICA
- 18.3 EUROPE
- 18.4 ASIA-PACIFIC
- 18.5 ROW

19 COMPETITIVE LANDSCAPE

- 19.1 INTRODUCTION
 - 19.1.1 NEW PRODUCTS LAUNCH AND OTHERS AS A MAJOR GROWTH STRATEGY OF MARKET PLAYERS
 - 19.1.2 NEW PRODUCT LAUNCH
 - 19.1.3 AGREEMENT/COLLABORATION/PARTNERSHIP/JOINT VENTURE
 - 19.1.4 EXPANSION/OTHER DEVELOPMENTS
 - 19.1.5 ACQUISITIONS
 - 19.1.6 APPROVAL

20 MAJOR COMPANIES

- 20.1 AGILENT TECHNOLOGIES
 - 20.1.1 OVERVIEW
 - 20.1.2 FINANCIALS
 - 20.1.3 PRODUCT PORTFOLIO
 - 20.1.4 KEY DEVELOPMENTS
 - 20.1.5 BUSINESS STRATEGY
 - 20.1.6 SWOT ANALYSIS
- 20.2 BECTON, DICKINSON AND COMPANY
 - 20.2.1 OVERVIEW
 - 20.2.2 FINANCIALS
 - 20.2.3 PRODUCT PORTFOLIO
 - 20.2.4 KEY DEVELOPMENTS
 - 20.2.5 BUSINESS STRATEGY
 - 20.2.6 SWOT ANALYSIS
- 20.3 BIO-RAD LABORATORIES
 - 20.3.1 OVERVIEW
 - 20.3.2 FINANCIALS
 - 20.3.3 PRODUCT PORTFOLIO

- 20.3.4 KEY DEVELOPMENTS
- 20.3.5 BUSINESS STRATEGY
- 20.3.6 SWOT ANALYSIS
- 20.4 BRUKER CORPORATION
 - 20.4.1 OVERVIEW
 - 20.4.2 FINANCIALS
 - 20.4.3 PRODUCT PORTFOLIO
 - 20.4.4 KEY DEVELOPMENTS
 - 20.4.5 BUSINESS STRATEGY
 - 20.4.6 SWOT ANALYSIS
- 20.5 DANAHER CORPORATION
 - 20.5.1 OVERVIEW
 - 20.5.2 FINANCIALS
 - 20.5.3 PRODUCT PORTFOLIO
 - 20.5.4 KEY DEVELOPMENTS
 - 20.5.5 BUSINESS STRATEGY
 - 20.5.6 SWOT ANALYSIS
- 20.6 ILLUMINA, INC.
 - 20.6.1 OVERVIEW
 - 20.6.2 FINANCIALS
 - 20.6.3 PRODUCT PORTFOLIO
 - 20.6.4 KEY DEVELOPMENTS
 - 20.6.5 BUSINESS STRATEGY
 - 20.6.6 SWOT ANALYSIS
- 20.7 MERCK KGAA
 - 20.7.1 OVERVIEW
 - 20.7.2 FINANCIALS
 - 20.7.3 PRODUCT PORTFOLIO
 - 20.7.4 KEY DEVELOPMENTS
 - 20.7.5 BUSINESS STRATEGY
 - 20.7.6 SWOT ANALYSIS
- 20.8 PERKINELMER, INC.
 - 20.8.1 OVERVIEW
 - 20.8.2 FINANCIALS
 - 20.8.3 PRODUCT PORTFOLIO
 - 20.8.4 KEY DEVELOPMENTS
 - 20.8.5 BUSINESS STRATEGY
 - 20.8.6 SWOT ANALYSIS
- 20.9 ROCHE HOLDINGS AG

- 20.9.1 OVERVIEW
- 20.9.2 FINANCIALS
- 20.9.3 PRODUCT PORTFOLIO
- 20.9.4 KEY DEVELOPMENTS
- 20.9.5 BUSINESS STRATEGY
- 20.9.6 SWOT ANALYSIS
- 20.10 SHIMADZU CORPORATION
 - 20.10.1 OVERVIEW
 - 20.10.2 FINANCIALS
 - 20.10.3 PRODUCT PORTFOLIO
 - 20.10.4 KEY DEVELOPMENTS
 - 20.10.5 BUSINESS STRATEGY
 - 20.10.6 SWOT ANALYSIS
- 20.11 THERMO FISHER SCIENTIFIC, INC.
 - 20.11.1 OVERVIEW
 - 20.11.2 FINANCIALS
 - 20.11.3 PRODUCT PORTFOLIO
 - 20.11.4 KEY DEVELOPMENTS
 - 20.11.5 BUSINESS STRATEGY
 - 20.11.6 SWOT ANALYSIS
- 20.12 WATERS CORPORATION
 - 20.12.1 OVERVIEW
 - 20.12.2 FINANCIALS
 - 20.12.3 PRODUCT PORTFOLIO
 - 20.12.4 KEY DEVELOPMENTS
 - 20.12.5 BUSINESS STRATEGY
 - 20.12.6 SWOT ANALYSIS

List Of Tables

LIST OF TABLES

Table 1 LIFE SCIENCE INSTRUMENTS AND REAGENTS GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 2 LIFE SCIENCE INSTRUMENTS AND REAGENTS GLOBAL MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 3 LIFE SCIENCE INSTRUMENTS AND REAGENTS GLOBAL MARKET REVENUE, BY COMPANIES, (2014 V/S 2015) (\$MN), GROWTH (%)

Table 4 SPECTROMETRY GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 5 SPECTROMETRY GLOBAL MARKET REVENUE, BY TECHNOLOGY TYPE, (2015-2023) (\$MN)

Table 6 ATOMIC SPECTROSCOPY GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 7 MASS SPECTROMETRY GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 8 MOLECULAR SPECTROMETRY GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 9 SPECTROMETRY GLOBAL MARKET REVENUE, BY APPLICATION, (2015-2023) (\$MN)

Table 10 SPECTROMETRY BIOTECHNOLOGY APPLICATION GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 11 SPECTROMETRY PHARMACEUTICAL APPLICATION GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 12 CHROMATOGRAPHY GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 13 CHROMATOGRAPHY GLOBAL MARKET REVENUE, BY TECHNOLOGY TYPE, (2015-2023) (\$MN)

Table 14 LIQUID CHROMATOGRAPHY GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 15 GAS CHROMATOGRAPHY GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 16 SUPERCRITICAL FLUID CHROMATOGRAPHY GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 17 THIN LAYER CHROMATOGRAPHY GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 18 CHROMATOGRAPHY GLOBAL MARKET REVENUE, BY PRODUCTS,

(2015-2023) (\$MN)

Table 19 CHROMATOGRAPHY INSTRUMENTS GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 20 CHROMATOGRAPHY COLUMNS GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 21 CHROMATOGRAPHY REAGENTS & CONSUMABLES GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 22 CHROMATOGRAPHY GLOBAL MARKET REVENUE, BY APPLICATION, (2015-2023) (\$MN)

Table 23 CHROMATOGRAPHY DRUG DISCOVERY & DEVELOPMENT APPLICATION GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 24 CHROMATOGRAPHY MANUFACTURING APPLICATION GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 25 CHROMATOGRAPHY GENOMICS, PROTEOMICS & METABOLOMICS APPLICATION GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 26 CHROMATOGRAPHY CLINICAL DIAGNOSTICS APPLICATION GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 27 MICROSCOPY GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 28 MICROSCOPY GLOBAL MARKET REVENUE, BY TECHNOLOGY TYPE, (2015-2023) (\$MN)

Table 29 ELECTRON MICROSCOPY GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 30 OPTICAL MICROSCOPY GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 31 CONFOCAL MICROSCOPY GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 32 SCANNING PROBE MICROSCOPY GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 33 MICROSCOPY GLOBAL MARKET REVENUE, BY APPLICATION, (2015-2023) (\$MN)

Table 34 MICROSCOPY CELL BIOLOGY APPLICATION GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 35 MICROSCOPY CLINICAL/PATHOLOGY APPLICATION GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 36 MICROSCOPY PHARMACOLOGY & TOXICOLOGY APPLICATION GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 37 MICROSCOPY BIOMEDICAL ENGINEERING APPLICATION GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 38 PCR GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 39 PCR GLOBAL MARKET REVENUE, BY TECHNOLOGY TYPE, (2015-2023) (\$MN)

Table 40 STANDARD PCR GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 41 REAL-TIME PCR/QPCR GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 42 REVERSE TRANSCRIPTASE PCR GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 43 DIGITAL PCR GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 44 ASSEMBLY PCR GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 45 OTHER PCR GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 46 PCR GLOBAL MARKET REVENUE, BY PRODUCTS, (2015-2023) (\$MN)

Table 47 PCR INSTRUMENTS GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 48 PCR REAGENTS & CONSUMABLES GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 49 PCR SOFTWARE GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 50 PCR SERVICES GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 51 PCR GLOBAL MARKET REVENUE, BY APPLICATION, (2015-2023) (\$MN)

Table 52 PCR CLINICAL DIAGNOSTICS APPLICATION GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 53 PCR INDUSTRY APPLICATIONS GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 54 OTHER PCR APPLICATIONS GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 55 FLOW CYTOMETRY GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 56 FLOW CYTOMETRY GLOBAL MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 57 CELL-BASED ASSAYS GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 58 BEAD-BASED ASSAYS GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 59 FLOW CYTOMETRY GLOBAL MARKET REVENUE, BY PRODUCTS, (2015-2023) (\$MN)

Table 60 FLOW CYTOMETRY INSTRUMENTS GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 61 FLOW CYTOMETRY REAGENTS & CONSUMABLES GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 62 FLOW CYTOMETRY GLOBAL MARKET REVENUE, BY APPLICATION, (2015-2023) (\$MN)

Table 63 FLOW CYTOMETRY RESEARCH APPLICATION GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 64 FLOW CYTOMETRY CLINICAL DIAGNOSTICS APPLICATION GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 65 FLOW CYTOMETRY PHARMA & BIOTECH APPLICATION GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 66 LABORATORY CENTRIFUGES GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 67 LABORATORY CENTRIFUGE GLOBAL MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 68 MICRO-CENTRIFUGATION GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 69 HIGH-SPEED CENTRIFUGATION GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 70 ULTRA-CENTRIFUGATION GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 71 LABORATORY CENTRIFUGES GLOBAL MARKET REVENUE, BY APPLICATION, (2015-2023) (\$MN)

Table 72 LABORATORY CENTRIFUGES RESEARCH APPLICATION GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 73 LABORATORY CENTRIFUGES DIAGNOSTIC APPLICATION GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 74 LABORATORY CENTRIFUGES MANUFACTURING APPLICATION GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 75 ELECTROPHORESIS GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 76 ELECTROPHORESIS GLOBAL MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 77 GEL ELECTROPHORESIS GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 78 CAPILLARY ELECTROPHORESIS GLOBAL MARKET REVENUE, BY

REGION, (2015-2023) (\$MN)

Table 79 ELECTROPHORESIS GLOBAL MARKET REVENUE, BY PRODUCTS, (2015-2023) (\$MN)

Table 80 ELECTROPHORESIS INSTRUMENT GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 81 ELECTROPHORESIS REAGENTS, BUFFERS & DYES GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 82 ELECTROPHORESIS GLOBAL MARKET REVENUE, BY APPLICATION, (2015-2023) (\$MN)

Table 83 ELECTROPHORESIS RESEARCH APPLICATION GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 84 ELECTROPHORESIS DIAGNOSTICS APPLICATION GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 85 ELECTROPHORESIS PHARMA & BIOTECH APPLICATION GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 86 NGS GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 87 NGS GLOBAL MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 88 REVERSIBLE TERMINATOR SEQUENCING GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 89 ION SEMICONDUCTOR SEQUENCING GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 90 SEQUENCING BY LIGATION GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 91 SINGLE MOLECULE REAL TIME SEQUENCING GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 92 OTHER NGS SEQUENCING GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 93 NGS GLOBAL MARKET REVENUE, BY PRODUCTS, (2015-2023) (\$MN)

Table 94 NGS INSTRUMENTS GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 95 NGS SERVICES GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 96 NGS WORKFLOW PRODUCTS GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 97 NGS GLOBAL MARKET REVENUE, BY PROCESS OF APPLICATION, (2015-2023) (\$MN)

Table 98 NGS GENOMICS APPLICATION GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 99 NGS EPIGENOMICS APPLICATION GLOBAL MARKET REVENUE, BY

REGION, (2015-2023) (\$MN)

Table 100 NGS TRANSCRIPTOMICS APPLICATION GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 101 NGS OTHER APPLICATION GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 102 NGS GLOBAL MARKET REVENUE, BY FIELD OF APPLICATION, (2015-2023) (\$MN)

Table 103 NGS DIAGNOSTICS APPLICATION GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 104 NGS DRUG DISCOVERY & DEVELOPMENT APPLICATION GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 105 NGS BIOMARKER DISCOVERY APPLICATION GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 106 BIOCHIPS GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 107 BIOCHIPS GLOBAL MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 108 MICROARRAY GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 109 MICROFLUIDICS GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 110 BIOCHIPS GLOBAL MARKET REVENUE, BY PRODUCTS, (2015-2023) (\$MN)

Table 111 BIOCHIPS INSTRUMENTS GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 112 BIOCHIPS REAGENTS AND CONSUMABLES GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 113 BIOCHIPS SOFTWARE GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 114 BIOCHIPS SERVICES GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 115 BIOCHIPS GLOBAL MARKET REVENUE, BY APPLICATION, (2015-2023) (\$MN)

Table 116 BIOCHIPS DIAGNOSTICS APPLICATION GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 117 BIOCHIPS DRUG DISCOVERY & DEVELOPMENT APPLICATION GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 118 BIOCHIPS RESEARCH APPLICATION GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 119 AUTOMATED LIQUID HANDLING & ROBOTICS GLOBAL MARKET

REVENUE, BY REGION, (2015-2023) (\$MN)

Table 120 AUTOMATED LIQUID HANDLING & ROBOTICS GLOBAL MARKET REVENUE, BY APPLICATION, (2015-2023) (\$MN)

Table 121 AUTOMATED LIQUID HANDLING & ROBOTICS DIAGNOSTIC APPLICATION GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 122 AUTOMATED LIQUID HANDLING & ROBOTICS DRUG DISCOVERY & DEVELOPMENT APPLICATION GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 123 AUTOMATED LIQUID HANDLING & ROBOTICS RESEARCH APPLICATION GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 124 CELL COUNTERS GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 125 LABORATORY FREEZERS GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 126 OTHERS LIFE SCIENCE INSTRUMENTS & REAGENTS GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 127 OTHERS LIFE SCIENCE INSTRUMENTS & REAGENTS GLOBAL MARKET REVENUE, BY TYPE, (2015-2023) (\$MN)

Table 128 STERILIZATION GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 129 WESTERN BLOTTING GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 130 COLORIMETERS GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 131 INCUBATORS GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 132 FUME HOODS GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 133 HIGH CONTENT SCREENING GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 134 LIFE SCIENCE INSTRUMENTS AND REAGENTS GLOBAL MARKET REVENUE, BY END USERS, (2015-2023) (\$MN)

Table 135 ACADEMIC AND GOVERNMENT INSTITUTES END USERS GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 136 PHARMACEUTICAL AND BIOTECHNOLOGY END USERS GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 137 HOSPITALS AND DIAGNOSTIC CENTERS END USERS GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 138 OTHER END USERS GLOBAL MARKET REVENUE, BY REGION,

(2015-2023) (\$MN)

Table 139 LIFE SCIENCE INSTRUMENTS AND REAGENTS GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Table 140 NORTH AMERICAN LIFE SCIENCE INSTRUMENTS & REAGENTS MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 141 NORTH AMERICAN SPECTROMETRY MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 142 NORTH AMERICAN SPECTROMETRY MARKET REVENUE, BY APPLICATION, (2015-2023) (\$MN)

Table 143 NORTH AMERICAN CHROMATOGRAPHY MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 144 NORTH AMERICAN CHROMATOGRAPHY MARKET REVENUE, BY PRODUCTS, (2015-2023) (\$MN)

Table 145 NORTH AMERICAN CHROMATOGRAPHY MARKET REVENUE, BY APPLICATION, (2015-2023) (\$MN)

Table 146 NORTH AMERICAN MICROSCOPY MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 147 NORTH AMERICAN MICROSCOPY MARKET REVENUE, BY APPLICATION, (2015-2023) (\$MN)

Table 148 NORTH AMERICAN PCR MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 149 NORTH AMERICAN PCR MARKET REVENUE, BY PRODUCTS, (2015-2023) (\$MN)

Table 150 NORTH AMERICAN PCR MARKET REVENUE, BY APPLICATION, (2015-2023) (\$MN)

Table 151 NORTH AMERICAN FLOW CYTOMETRY MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 152 NORTH AMERICAN FLOW CYTOMETRY MARKET REVENUE, BY PRODUCTS, (2015-2023) (\$MN)

Table 153 NORTH AMERICAN FLOW CYTOMETRY MARKET REVENUE, BY APPLICATION, (2015-2023) (\$MN)

Table 154 NORTH AMERICAN LABORATORY CENTRIFUGE MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 155 NORTH AMERICAN LABORATORY CENTRIFUGE MARKET REVENUE, BY APPLICATION, (2015-2023) (\$MN)

Table 156 NORTH AMERICAN ELECTROPHORESIS MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 157 NORTH AMERICAN ELECTROPHORESIS MARKET REVENUE, BY PRODUCTS, (2015-2023) (\$MN)

Table 158 NORTH AMERICAN ELECTROPHORESIS MARKET REVENUE, BY APPLICATION, (2015-2023) (\$MN)

Table 159 NORTH AMERICAN NGS MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 160 NORTH AMERICAN NGS MARKET REVENUE, BY PRODUCTS, (2015-2023) (\$MN)

Table 161 NORTH AMERICAN NGS MARKET REVENUE, BY PROCESS OF APPLICATION, (2015-2023) (\$MN)

Table 162 NORTH AMERICAN NGS MARKET REVENUE, BY FIELD OF APPLICATION, (2015-2023) (\$MN)

Table 163 NORTH AMERICAN BIOCHIPS MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 164 NORTH AMERICAN BIOCHIPS MARKET REVENUE, BY PRODUCTS, (2015-2023) (\$MN)

Table 165 NORTH AMERICAN BIOCHIPS MARKET REVENUE, BY APPLICATION, (2015-2023) (\$MN)

Table 166 NORTH AMERICAN AUTOMATED LIQUID HANDLING & ROBOTICS MARKET REVENUE, BY APPLICATION, (2015-2023) (\$MN)

Table 167 NORTH AMERICAN LIFE SCIENCE INSTRUMENTS & REAGENTS OTHERS MARKET REVENUE, BY TYPE, (2015-2023) (\$MN)

Table 168 NORTH AMERICAN LIFE SCIENCE INSTRUMENTS & REAGENTS MARKET REVENUE, BY END USERS, (2015-2023) (\$MN)

Table 169 EUROPEAN LIFE SCIENCE INSTRUMENTS & REAGENTS MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 170 EUROPEAN SPECTROMETRY MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 171 EUROPEAN SPECTROMETRY MARKET REVENUE, BY APPLICATION, (2015-2023) (\$MN)

Table 172 EUROPEAN CHROMATOGRAPHY MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 173 EUROPEAN CHROMATOGRAPHY MARKET REVENUE, BY PRODUCTS, (2015-2023) (\$MN)

Table 174 EUROPEAN CHROMATOGRAPHY MARKET REVENUE, BY APPLICATION, (2015-2023) (\$MN)

Table 175 EUROPEAN MICROSCOPY MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 176 EUROPEAN MICROSCOPY MARKET REVENUE, BY APPLICATION, (2015-2023) (\$MN)

Table 177 EUROPEAN PCR MARKET REVENUE, BY TECHNOLOGY, (2015-2023)

(\$MN)

Table 178 EUROPEAN PCR MARKET REVENUE, BY PRODUCTS, (2015-2023)

(\$MN)

Table 179 EUROPEAN PCR MARKET REVENUE, BY APPLICATION, (2015-2023)

(\$MN)

Table 180 EUROPEAN FLOW CYTOMETRY MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 181 EUROPEAN FLOW CYTOMETRY MARKET REVENUE, BY PRODUCTS, (2015-2023) (\$MN)

Table 182 EUROPEAN FLOW CYTOMETRY MARKET REVENUE, BY APPLICATION, (2015-2023) (\$MN)

Table 183 EUROPEAN LABORATORY CENTRIFUGE MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 184 EUROPEAN LABORATORY CENTRIFUGE MARKET REVENUE, BY APPLICATION, (2015-2023) (\$MN)

Table 185 EUROPEAN ELECTROPHORESIS MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 186 EUROPEAN ELECTROPHORESIS MARKET REVENUE, BY PRODUCTS, (2015-2023) (\$MN)

Table 187 EUROPEAN ELECTROPHORESIS MARKET REVENUE, BY APPLICATION, (2015-2023) (\$MN)

Table 188 EUROPEAN NGS MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 189 EUROPEAN NGS MARKET REVENUE, BY PRODUCTS, (2015-2023) (\$MN)

Table 190 EUROPEAN NGS MARKET REVENUE, BY PROCESS OF APPLICATION, (2015-2023) (\$MN)

Table 191 EUROPEAN NGS MARKET REVENUE, BY FIELD OF APPLICATION, (2015-2023) (\$MN)

Table 192 EUROPEAN BIOCHIPS MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 193 EUROPEAN BIOCHIPS MARKET REVENUE, BY PRODUCTS, (2015-2023) (\$MN)

Table 194 EUROPEAN BIOCHIPS MARKET REVENUE, BY APPLICATION, (2015-2023) (\$MN)

Table 195 EUROPEAN AUTOMATED LIQUID HANDLING & ROBOTICS MARKET REVENUE, BY APPLICATION, (2015-2023) (\$MN)

Table 196 EUROPEAN LIFE SCIENCE INSTRUMENTS & REAGENTS OTHERS MARKET REVENUE, BY TYPE, (2015-2023) (\$MN)

Table 197 EUROPEAN LIFE SCIENCE INSTRUMENTS & REAGENTS MARKET REVENUE, BY END USERS, (2015-2023) (\$MN)

Table 198 ASIA-PACIFIC LIFE SCIENCE INSTRUMENTS & REAGENTS MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 199 ASIA-PACIFIC SPECTROMETRY MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 200 ASIA-PACIFIC SPECTROMETRY MARKET REVENUE, BY APPLICATION, (2015-2023) (\$MN)

Table 201 ASIA-PACIFIC CHROMATOGRAPHY MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 202 ASIA-PACIFIC CHROMATOGRAPHY MARKET REVENUE, BY PRODUCTS, (2015-2023) (\$MN)

Table 203 ASIA-PACIFIC CHROMATOGRAPHY MARKET REVENUE, BY APPLICATION, (2015-2023) (\$MN)

Table 204 ASIA-PACIFIC MICROSCOPY MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 205 ASIA-PACIFIC MICROSCOPY MARKET REVENUE, BY APPLICATION, (2015-2023) (\$MN)

Table 206 ASIA-PACIFIC PCR MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 207 ASIA-PACIFIC PCR MARKET REVENUE, BY PRODUCTS, (2015-2023) (\$MN)

Table 208 ASIA-PACIFIC PCR MARKET REVENUE, BY APPLICATION, (2015-2023) (\$MN)

Table 209 ASIA-PACIFIC FLOW CYTOMETRY MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 210 ASIA-PACIFIC FLOW CYTOMETRY MARKET REVENUE, BY PRODUCTS, (2015-2023) (\$MN)

Table 211 ASIA-PACIFIC FLOW CYTOMETRY MARKET REVENUE, BY APPLICATION, (2015-2023) (\$MN)

Table 212 ASIA-PACIFIC LABORATORY CENTRIFUGE MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 213 ASIA-PACIFIC LABORATORY CENTRIFUGE MARKET REVENUE, BY APPLICATION, (2015-2023) (\$MN)

Table 214 ASIA-PACIFIC ELECTROPHORESIS MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 215 ASIA-PACIFIC ELECTROPHORESIS MARKET REVENUE, BY PRODUCTS, (2015-2023) (\$MN)

Table 216 ASIA-PACIFIC ELECTROPHORESIS MARKET REVENUE, BY

APPLICATION, (2015-2023) (\$MN)

Table 217 ASIA-PACIFIC NGS MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 218 ASIA-PACIFIC NGS MARKET REVENUE, BY PRODUCTS, (2015-2023) (\$MN)

Table 219 ASIA-PACIFIC NGS MARKET REVENUE, BY PROCESS OF APPLICATION, (2015-2023) (\$MN)

Table 220 ASIA-PACIFIC NGS MARKET REVENUE, BY FIELD OF APPLICATION, (2015-2023) (\$MN)

Table 221 ASIA-PACIFIC BIOCHIPS MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 222 ASIA-PACIFIC BIOCHIPS MARKET REVENUE, BY PRODUCTS, (2015-2023) (\$MN)

Table 223 ASIA-PACIFIC BIOCHIPS MARKET REVENUE, BY APPLICATION, (2015-2023) (\$MN)

Table 224 ASIA-PACIFIC AUTOMATED LIQUID HANDLING & ROBOTICS MARKET REVENUE, BY APPLICATION, (2015-2023) (\$MN)

Table 225 ASIA-PACIFIC LIFE SCIENCE INSTRUMENTS & REAGENTS OTHERS MARKET REVENUE, BY TYPE, (2015-2023) (\$MN)

Table 226 ASIA-PACIFIC LIFE SCIENCE INSTRUMENTS & REAGENTS MARKET REVENUE, BY END USERS, (2015-2023) (\$MN)

Table 227 ROW LIFE SCIENCE INSTRUMENTS & REAGENTS MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 228 ROW SPECTROMETRY MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 229 ROW SPECTROMETRY MARKET REVENUE, BY APPLICATION, (2015-2023) (\$MN)

Table 230 ROW CHROMATOGRAPHY MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 231 ROW CHROMATOGRAPHY MARKET REVENUE, BY PRODUCTS, (2015-2023) (\$MN)

Table 232 ROW CHROMATOGRAPHY MARKET REVENUE, BY APPLICATION, (2015-2023) (\$MN)

Table 233 ROW MICROSCOPY MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 234 ROW MICROSCOPY MARKET REVENUE, BY APPLICATION, (2015-2023) (\$MN)

Table 235 ROW PCR MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 236 ROW PCR MARKET REVENUE, BY PRODUCTS, (2015-2023) (\$MN)

Table 237 ROW PCR MARKET REVENUE, BY APPLICATION, (2015-2023) (\$MN)

Table 238 ROW FLOW CYTOMETRY MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 239 ROW FLOW CYTOMETRY MARKET REVENUE, BY PRODUCTS, (2015-2023) (\$MN)

Table 240 ROW FLOW CYTOMETRY MARKET REVENUE, BY APPLICATION, (2015-2023) (\$MN)

Table 241 ROW LABORATORY CENTRIFUGE MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 242 ROW LABORATORY CENTRIFUGE MARKET REVENUE, BY APPLICATION, (2015-2023) (\$MN)

Table 243 ROW ELECTROPHORESIS MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 244 ROW ELECTROPHORESIS MARKET REVENUE, BY PRODUCTS, (2015-2023) (\$MN)

Table 245 ROW ELECTROPHORESIS MARKET REVENUE, BY APPLICATION, (2015-2023) (\$MN)

Table 246 ROW NGS MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 247 ROW NGS MARKET REVENUE, BY PRODUCTS, (2015-2023) (\$MN)

Table 248 ROW NGS MARKET REVENUE, BY PROCESS OF APPLICATION, (2015-2023) (\$MN)

Table 249 ROW NGS MARKET REVENUE, BY FIELD OF APPLICATION, (2015-2023) (\$MN)

Table 250 ROW BIOCHIPS MARKET REVENUE, BY TECHNOLOGY, (2015-2023) (\$MN)

Table 251 ROW BIOCHIPS MARKET REVENUE, BY PRODUCTS, (2015-2023) (\$MN)

Table 252 ROW BIOCHIPS MARKET REVENUE, BY APPLICATION, (2015-2023) (\$MN)

Table 253 ROW AUTOMATED LIQUID HANDLING & ROBOTICS MARKET REVENUE, BY APPLICATION, (2015-2023) (\$MN)

Table 254 ROW LIFE SCIENCE INSTRUMENTS & REAGENTS OTHERS MARKET REVENUE, BY TYPE, (2015-2023) (\$MN)

Table 255 ROW LIFE SCIENCE INSTRUMENTS & REAGENTS MARKET REVENUE, BY END USERS, (2015-2023) (\$MN)

Table 256 NEW PRODUCT LAUNCH (2015-2016)

Table 257 AGREEMENTS, PARTNERSHIPS, COLLABORATIONS & JOINT VENTURES (2015-2016)

Table 258 EXPANSION/OTHER DEVELOPMENTS (2015-2016)

Table 259 ACQUISITION (2015-2016)

Table 260 APPROVALS (2015-2016)

Table 261 AGILENT TECHNOLOGIES INC,: TOTAL REVENUE AND R&D EXPENSES, (2014-2016) (\$MN)

Table 262 AGILENT TECHNOLOGIES INC,: TOTAL REVENUE, BY SEGMENTS, (2014-2016) (\$MN)

Table 263 AGILENT TECHNOLOGIES INC,: TOTAL REVENUE, BY GEOGRAPHY, (2014-2016) (\$MN)

Table 264 BECTON, DICKINSON AND COMPANY: TOTAL REVENUE AND R&D EXPENSES (2014-2016) (\$MN)

Table 265 BECTON, DICKINSON AND COMPANY: TOTAL REVENUE, BY SEGMENTS (2014-2016) (\$MN)

Table 266 BECTON, DICKINSON AND COMPANY: LIFE SCIENCE SEGMENTS REVENUE, BY SUB-SEGMENTS (2014-2016) (\$MN)

Table 267 BECTON DICKINSON AND COMPANY: TOTAL REVENUE, BY GEOGRAPHY, (2014-2016) (\$MN)

Table 268 BIO-RAD LABORATORIES: TOTAL REVENUE AND R&D EXPENSES (2014-2016) (\$MN)

Table 269 BIO-RAD LABORATORIES: TOTAL REVENUE, BY SEGMENTS, (2014-2016) (\$MN)

Table 270 BIO-RAD LABORATORIES: TOTAL REVENUE, BY GEOGRAPHY, (2014-2016) (\$MN)

Table 271 BRUKER CORPORATION: TOTAL REVENUE AND R&D EXPENSES, (2014-2016) (\$MN)

Table 272 BRUKER CORPORATION: TOTAL REVENUE, BY SEGMENTS, (2014-2016) (\$MN)

Table 273 BRUKER CORPORATION: TOTAL REVENUE, BY GEOGRAPHY, (2014-2016) (\$MN)

Table 274 DANAHER CORPORATION: TOTAL REVENUE AND R&D EXPENSES, (2014-2016) (\$MN)

Table 275 DANAHER CORPORATION: TOTAL REVENUE, BY SEGMENTS, (2014-2015) (\$MN)

Table 276 DANAHER CORPORATION: TOTAL REVENUE, BY SEGMENTS, (2014-2015) (\$MN)

Table 277 DANAHER CORPORATION: TOTAL REVENUE, BY GEOGRAPHY, (2014-2016) (\$MN)

Table 278 ILLUMINA, INC.: TOTAL REVENUE AND R&D EXPENSES (2014-2016) (\$MN)

Table 279 ILLUMINA, INC.: TOTAL REVENUE, BY SEGMENTS, (2014 -2016) (\$MN)

Table 280 ILLUMINA, INC.: TOTAL REVENUE, BY GEOGRAPHY, (2014-2016) (\$MN)

Table 281 MERCK KGAA: TOTAL REVENUE AND R&D EXPENSES, (2014-2016) (\$MN)

Table 282 MERCK KGAA: TOTAL REVENUE, BY SEGMENTS, (2014-2016) (\$MN)

Table 283 MERCK KGAA: TOTAL REVENUE, BY GEOGRAPHY, (2014-2016) (\$MN)

Table 284 PERKINELMER, INC.: TOTAL REVENUE AND R&D EXPENSES (2014-2016) (\$MN)

Table 285 PERKINELMER, INC.: TOTAL REVENUE, BY SEGMENTS, (2014-2016) (\$MN)

Table 286 PERKINELMER, INC.: TOTAL REVENUE, BY GEOGRAPHY, (2014-2016) (\$MN)

Table 287 ROCHE HOLDINGS AG: TOTAL REVENUE AND R&D EXPENSES, (2014-2016) (\$MN)

Table 288 ROCHE HOLDINGS AG: TOTAL REVENUE BY SEGMENTS, (2014-2016) (\$MN)

Table 289 ROCHE HOLDINGS AG: DIAGNOSTICS REVENUE BY TYPES, (2014-2016) (\$MN)

Table 290 ROCHE HOLDINGS AG: TOTAL REVENUE, BY GEOGRAPHY, (2014-2016) (\$MN)

Table 291 SHIMADZU CORPORATION: TOTAL REVENUE AND R&D EXPENSES, (2014-2016) (\$MN)

Table 292 SHIMADZU CORPORATION: TOTAL REVENUE, BY SEGMENTS, (2014-2016) (\$MN)

Table 293 SHIMADZU CORPORATION: TOTAL REVENUE, BY GEOGRAPHY, (2014-2016) (\$MN)

Table 294 THERMO FISHER SCIENTIFIC, INC.: TOTAL REVENUE AND R&D EXPENSES, (2014-2016) (\$MN)

Table 295 THERMO FISHER SCIENTIFIC, INC.: TOTAL REVENUE, BY SEGMENTS, (2014-2016) (\$MN)

Table 296 THERMO FISHER SCIENTIFIC, INC.: TOTAL REVENUE, BY GEOGRAPHY, (2014-2016) (\$MN)

Table 297 WATERS CORPORATION: TOTAL REVENUE AND R&D EXPENSES, (2014-2016) (\$MN)

Table 298 WATERS CORPORATION: TOTAL REVENUE, BY SEGMENTS, (2014-2016) (\$MN)

Table 299 WATERS CORPORATION: TOTAL REVENUE, BY GEOGRAPHY, (2014-2016) (\$MN)

List Of Figures

LIST OF FIGURES

Figure 1 LIFE SCIENCE INSTRUMENTS AND REAGENTS GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN)

Figure 2 LIFE SCIENCE INSTRUMENTS AND REAGENTS GLOBAL MARKET REVENUE, BY TECHNOLOGY, (2016 V/S 2023) (\$MN)

Figure 3 LIFE SCIENCE INSTRUMENTS AND REAGENTS GLOBAL MARKET, BY TECHNOLOGY, (2016) (%)

Figure 4 LIFE SCIENCE INSTRUMENTS AND REAGENTS TECHNOLOGY GLOBAL MARKET SCENARIO (2016) CAGR (%)

Figure 5 TOP 10 COMPANIES' LSIR REVENUE IN 2015 (\$MN) V/S SHARE OF LSIR AS A PERCENTAGE OF TOTAL REVENUE (%)

Figure 6 RESEARCH METHODOLOGY: LIFE SCIENCE INSTRUMENTS AND REAGENTS GLOBAL MARKET

Figure 7 LIFE SCIENCE INSTRUMENTS AND REAGENTS GLOBAL MARKET: TOP-DOWN AND BOTTOM-UP APPROACH

Figure 8 LIFE SCIENCE INSTRUMENTS AND REAGENTS GLOBAL MARKET: FORECASTING MODEL

Figure 9 LIFE SCIENCE INSTRUMENTS AND REAGENTS GLOBAL MARKET: MARKET CRACKDOWN & DATA TRIANGULATION

Figure 10 LIFE SCIENCE INSTRUMENTS AND REAGENTS GLOBAL MARKET: TECHNOLOGY SEGMENTATION

Figure 11 LIFE SCIENCE INSTRUMENTS AND REAGENTS GLOBAL MARKET: APPLICATION SEGMENTATION

Figure 12 MARKET DYNAMICS

Figure 13 LIFE SCIENCE INSTRUMENTS AND REAGENTS GLOBAL MARKET: PORTER'S ANALYSIS

Figure 14 LIFE SCIENCE INSTRUMENTS AND REAGENTS GLOBAL MARKET SHARE ANALYSIS (2016) (%)

Figure 15 SPECTROMETRY GLOBAL MARKET REVENUE, BY TECHNOLOGY, APPLICATION (2016 V/S 2023) (\$MN)

Figure 16 SPECTROMETRY GLOBAL MARKET SHARE ANALYSIS IN 2016 (%)

Figure 17 CHROMATOGRAPHY GLOBAL MARKET REVENUE, BY TECHNOLOGY, APPLICATION, PRODUCTS (2016 V/S 2023) (\$MN)

Figure 18 CHROMATOGRAPHY GLOBAL MARKET SHARE ANALYSIS IN 2016 (%)

Figure 19 MICROSCOPY GLOBAL MARKET REVENUE, BY TECHNOLOGY, APPLICATION (2016 V/S 2023) (\$MN)

- Figure 20 MICROSCOPY GLOBAL MARKET SHARE ANALYSIS IN 2016 (%)
- Figure 21 PCR GLOBAL MARKET REVENUE, BY TECHNOLOGY, PRODUCTS, APPLICATION (2016 V/S 2023) (\$MN)
- Figure 22 PCR GLOBAL MARKET SHARE ANALYSIS IN 2016 (%)
- Figure 23 FLOW CYTOMETRY GLOBAL MARKET REVENUE, BY TECHNOLOGY, PRODUCTS, APPLICATION (2016 V/S 2023) (\$MN)
- Figure 24 FLOW CYTOMETRY GLOBAL MARKET SHARE ANALYSIS IN 2016 (%)
- Figure 25 LABORATORY CENTRIFUGES GLOBAL MARKET REVENUE, BY TECHNOLOGY, APPLICATION (2016 V/S 2023) (\$MN)
- Figure 26 ELECTROPHORESIS GLOBAL MARKET REVENUE, BY TECHNOLOGY, PRODUCTS, APPLICATION (2016 V/S 2023) (\$MN)
- Figure 27 NGS GLOBAL MARKET REVENUE, BY TECHNOLOGY, PRODUCTS, (2016 V/S 2023) (\$MN)
- Figure 28 NGS GLOBAL MARKET REVENUE, BY APPLICATION (2016 V/S 2023) (\$MN)
- Figure 29 NGS GLOBAL MARKET REVENUE, BY APPLICATION (CLINICAL V/S NON-CLINICAL) (2016) (%)
- Figure 30 NGS GLOBAL MARKET SHARE ANALYSIS IN 2016 (%)
- Figure 31 BIOCHIPS GLOBAL MARKET REVENUE, BY TECHNOLOGY, PRODUCTS, APPLICATION (2016 V/S 2023) (\$MN)
- Figure 32 BIOCHIPS GLOBAL MARKET SHARE ANALYSIS IN 2016 (%)
- Figure 33 AUTOMATED LIQUID HANDLING & ROBOTICS GLOBAL MARKET REVENUE, BY APPLICATION (2016 V/S 2023) (\$MN)
- Figure 34 OTHER GLOBAL MARKET REVENUE, (2016 V/S 2023) (\$MN)
- Figure 35 LIFE SCIENCE INSTRUMENTS & REAGENTS GLOBAL MARKET REVENUE, BY END USERS (2016 V/S 2023) (\$MN)
- Figure 36 LIFE SCIENCE INSTRUMENTS AND REAGENTS GLOBAL MARKET REVENUE, BY REGION, (2015-2023) (\$MN), CAGR (%)
- Figure 37 NORTH AMERICAN LIFE SCIENCE INSTRUMENTS & REAGENTS MARKET, BY TECHNOLOGY (2016) (%)
- Figure 38 NORTH AMERICAN LIFE SCIENCE INSTRUMENTS & REAGENTS MARKET REVENUE, BY END USERS (2016 V/S 2023) (\$MN)
- Figure 39 EUROPEAN LIFE SCIENCE INSTRUMENTS & REAGENTS MARKET, BY TECHNOLOGY (2016) (%)
- Figure 40 EUROPEAN LIFE SCIENCE INSTRUMENTS & REAGENTS MARKET REVENUE, BY END USERS (2016 V/S 2023) (\$MN)
- Figure 41 ASIA-PACIFIC LIFE SCIENCE INSTRUMENTS & REAGENTS MARKET, BY TECHNOLOGY (2016) (%)
- Figure 42 ASIA-PACIFIC LIFE SCIENCE INSTRUMENTS & REAGENTS MARKET

REVENUE, BY END USERS (2016 V/S 2023) (\$MN)

Figure 43 ROW LIFE SCIENCE INSTRUMENTS & REAGENTS MARKET REVENUE,
BY TECHNOLOGY (2016) (%)

Figure 44 ROW LIFE SCIENCE INSTRUMENTS & REAGENTS MARKET REVENUE,
BY END USERS (2012 V/S 2023) (\$MN)

Figure 45 KEY GROWTH STRATEGIES (2015-2016) (%)

Figure 46 SWOT: AGILENT TECHNOLOGIES, INC.

Figure 47 SWOT: BD AND COMPANY

Figure 48 SWOT: BIO-RAD LABORATORIES

Figure 49 SWOT: BURKER CORPORATION

Figure 50 SWOT: DANAHER CORPORATION

Figure 51 SWOT: ILLUMINA, INC.

Figure 52 SWOT: MERCK KGAA

Figure 53 SWOT: PERKINELMER, INC

Figure 54 SWOT: ROCHE HOLDINGS AG

Figure 55 SWOT: SHIMADZU CORPORATION

Figure 56 SWOT: THERMO FISHER SCIENTIFIC, INC.

Figure 57 SWOT: WATERS CORPORATION

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