

High Throughput Screening Market by Product (Instrument, Consumable, Service), Technology (Cell-based Assays, Lab-on-a-Chip, Label-free), Application (Drug Discovery, Life Sciences Research), End User (Pharma, Biotech, CRO) - Global Forecast to 2028

<https://marketpublishers.com/r/HE847389D5FEN.html>

Date: July 2023

Pages: 356

Price: US\$ 4,950.00 (Single User License)

ID: HE847389D5FEN

Abstracts

The global high-throughput screening market size is projected to reach USD 44.5 billion by 2028 from USD 25.6 billion in 2023, at a CAGR of 11.6% during the forecast period. Increase in government funding and venture capital investments is one of the high impact drivers of the high throughput screening market. In March 2023, Iktos, a company specializing in artificial intelligence for new drug discovery, today announces the closing of a 15.5 million euros (USD 16 Mn) Series A financing co-led by new investors M Ventures and Debiopharm Innovation Fund with participation from Omnes Capital. This financing will enable the company to further develop its AI and drug discovery capabilities and expand its existing SaaS software offering, in addition to launching Iktos Robotics.

“The services segment is set to register highest growth rate during 2023-2028 in HTS market”

The high-throughput screening market is segmented into consumables, instruments, , services, and software. HTS services have emerged as a lucrative market space, with fastest growth in the market registered through the forecast period. Routine adoption of outsourcing of HTS services by pharmaceutical companies, including lead identification, screening, toxicology, and other preclinical studies contributes to the segment growth.

“CRO end user segment is set to witness the highest growth rate in the HTS market”

Based on end user , the high-throughput screening market is segmented into pharmaceutical & biotechnology companies, academic & research institutes, contract research organizations (CROs) and other end users. The key factor driving the growth of this segment includes trend of outsourcing of R&D activities by pharmaceutical and biotechnology companies. In recent years, due to the enormous pressure to contain fixed costs, outsourcing has evolved as a strategic alternative for pharmaceutical & biopharmaceutical companies due to the lack of in-house resources required for new product development and the need for cost & time savings.

“Drug Discovery segment accounted for the highest CAGR”

Based on application , the high-throughput screening market is segmented into drug discovery, biochemical screening, life sciences research and other applications. The drug discovery segment is set to grow at the fastest pace throughout 2023 to 2028. The key factor driving this segment's growth is the increasing number of clinical trials and rising pharmaceutical R&D expenditure. Continuous advancements in HTS technologies, such as automation, miniaturization, and high-content screening, are impacting the growth of the segment. Automation enables the handling and screening of large compound libraries with high precision and throughput, improving efficiency and reducing costs.

“Asia Pacific: The fastest-growing country in the high-throughput screening market”

The high-throughput screening market is segmented into North America, Europe, Asia Pacific, Latin America, and the MEA. Asia Pacific is projected to register the highest CAGR during the forecast period. Factors such as the rising R&D spending, growing public-private partnerships, and increasing government funding are factors driving the growth of the HTS market in this region.

The primary interviews conducted for this report can be categorized as follows:

By Company Type: Supply side- 80%, Demand side-20%

By Designation: C-level - 45%, D-level - 30%, and Others - 25%

By Region: Asia-Pacific -55%, North America -20%, Europe -10%, Latin America-10%, Middle East and Africa-5%

Lists of Companies Profiled in the Report:

Thermo Fisher Scientific, Inc. (US)

Agilent Technologies, Inc. (US)

Merck KGaA (Germany)

Danaher Corporation (US)

PerkinElmer, Inc. (US)

Tecan Group Ltd. (Switzerland)

AXXAM S.p.A (Italy)

Promega Corporation (US)

Bio-Rad Laboratories, Inc.(US)

Promega Corporation (US)

Hamilton Company (US)

Corning Incorporated (US)

Charles River Laboratories (US)

Lonza (Switzerland)

REPROCELL Inc. (Japan)

Aurora Biomed (Canada)

BMG LABTECH (Germany)

DIANA Biotechnologies, s.r.o. (Czech Republic)

NanoTemper Technologies GmbH (Germany)

Creative Biolabs (US)

Biomat Srl (Italy)

Research Coverage:

This report provides a detailed picture of the high throughput screening market. It aims at estimating the size and future growth potential of the market across different segments, such as the product & service, technology, application, end user, and region. The report also includes an in-depth competitive analysis of the key market players, along with their company profiles, recent developments, and key market strategies.

Reasons to Buy the Report:

The report provides insights on the following pointers:

Analysis of key drivers (the growing adoption of open innovative models in pharmaceutical & biotechnology companies, government funding and venture capital investments, increasing R&D spending, and technological advancements), restraints (high costs of using HTS instruments, and complexities in assay development), opportunities (increasing adoption of HTS technologies in emerging markets, and growing applications in stem cell research), and challenges (dearth of skilled operators, and complexities in data analysis and management) influencing the growth of the HTS market.

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the HTS market.

Market Development: Comprehensive information about lucrative emerging markets. The report analyzes the markets for various high-throughput screening across key geographic regions.

Market Diversification: Exhaustive information about new products, untapped geographies, recent developments, and investments in the high-throughput screening market.

Competitive Assessment: In-depth assessment of market ranking and strategies of the leading players like Thermo Fisher Scientific, Inc. (US), Agilent Technologies, Inc. (US), Merck KGaA (Germany), Danaher Corporation (US), PerkinElmer, Inc. (US), among others in the high-throughput screening market.

Contents

1 INTRODUCTION

1.1 STUDY OBJECTIVES

1.2 MARKET DEFINITION

1.2.1 INCLUSIONS AND EXCLUSIONS

1.3 MARKET SCOPE

FIGURE 1 HTS MARKET SEGMENTATION

1.3.1 YEARS CONSIDERED

1.3.2 CURRENCY CONSIDERED

1.4 LIMITATIONS

1.5 STAKEHOLDERS

1.6 SUMMARY OF CHANGES

1.6.1 RECESSION IMPACT

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 2 RESEARCH DESIGN

2.1.1 SECONDARY DATA

2.1.2 PRIMARY DATA

FIGURE 3 HTS MARKET: BREAKDOWN OF PRIMARIES

2.2 MARKET SIZE ESTIMATION

FIGURE 4 MARKET SIZE ESTIMATION: SUPPLY-SIDE ANALYSIS, 2022

FIGURE 5 MARKET SIZE ESTIMATION: APPROACH 1 (REVENUE SHARE ANALYSIS), 2022

FIGURE 6 ILLUSTRATIVE EXAMPLE OF THERMO FISHER SCIENTIFIC: REVENUE SHARE ANALYSIS, 2022

2.2.1 INSIGHTS FROM PRIMARIES

FIGURE 7 MARKET VALIDATION FROM PRIMARY EXPERTS

FIGURE 8 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH

2.3 GROWTH FORECAST

FIGURE 9 HTS MARKET: CAGR PROJECTIONS, 2023–2028

FIGURE 10 HTS MARKET: GROWTH ANALYSIS OF DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

2.4 MARKET BREAKDOWN AND DATA TRIANGULATION

FIGURE 11 DATA TRIANGULATION METHODOLOGY

2.5 RESEARCH ASSUMPTIONS

2.6 RISK ANALYSIS

2.7 RECESSION IMPACT ANALYSIS

TABLE 1 GLOBAL INFLATION RATE PROJECTIONS, 2021–2027 (% GROWTH)

TABLE 2 US HEALTH EXPENDITURE, 2019–2022 (USD MILLION)

TABLE 3 US HEALTH EXPENDITURE, 2023–2027 (USD MILLION)

3 EXECUTIVE SUMMARY

FIGURE 12 HTS MARKET, BY PRODUCT & SERVICE, 2023 VS. 2028 (USD MILLION)

FIGURE 13 HTS MARKET, BY TECHNOLOGY, 2023 VS. 2028 (USD MILLION)

FIGURE 14 HTS MARKET, BY APPLICATION, 2023 VS. 2028 (USD MILLION)

FIGURE 15 HTS MARKET, BY END USER, 2023 VS. 2028 (USD MILLION)

FIGURE 16 GEOGRAPHICAL SNAPSHOT: HTS MARKET

4 PREMIUM INSIGHTS

4.1 HIGH-THROUGHPUT SCREENING MARKET OVERVIEW

FIGURE 17 GROWING ADOPTION OF OPEN INNOVATIVE MODELS IN PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES TO DRIVE MARKET GROWTH

4.2 NORTH AMERICA: HIGH-THROUGHPUT SCREENING MARKET SHARE, BY PRODUCT & SERVICE AND COUNTRY (2022)

FIGURE 18 CONSUMABLES DOMINATED NORTH AMERICAN HTS MARKET IN 2022

4.3 HIGH-THROUGHPUT SCREENING MARKET, BY PRODUCT & SERVICE, 2023 VS. 2028 (USD MILLION)

FIGURE 19 CONSUMABLES TO CONTINUE TO DOMINATE MARKET BY 2028

4.4 HIGH-THROUGHPUT SCREENING MARKET SHARE, BY END USER, 2022

FIGURE 20 PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES ACCOUNTED FOR LARGEST MARKET SHARE IN 2022

4.5 HIGH-THROUGHPUT SCREENING MARKET: GEOGRAPHIC GROWTH OPPORTUNITIES

FIGURE 21 ASIA PACIFIC TO REGISTER HIGHEST GROWTH RATE FROM 2023 TO 2028

5 MARKET OVERVIEW

5.1 INTRODUCTION

High Throughput Screening Market by Product (Instrument, Consumable, Service), Technology (Cell-based Assays,...

5.2 MARKET DYNAMICS

FIGURE 22 HTS MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

TABLE 4 HTS MARKET: IMPACT ANALYSIS

5.2.1 DRIVERS

5.2.1.1 Growing adoption of open innovation models in pharmaceutical & biotechnology companies

5.2.1.2 Government funding and venture capital investments

TABLE 5 INVESTMENT BREAKDOWN, 2021 (USD MILLION)

5.2.1.3 Increasing R&D spending

FIGURE 23 RISING GLOBAL PHARMACEUTICAL R&D SPENDING, 2014–2028

5.2.1.4 Technological advancements

5.2.2 RESTRAINTS

5.2.2.1 High cost of using screening instruments

TABLE 6 INSTRUMENT PRICING (USD)

5.2.2.2 Complexities in assay development

5.2.3 OPPORTUNITIES

5.2.3.1 Increasing adoption of screening technologies in emerging economies

5.2.3.2 Growing applications in stem cell research

5.2.4 CHALLENGES

5.2.4.1 Dearth of skilled operators

5.2.4.2 Complexities in data analysis and management

5.3 TECHNOLOGY ANALYSIS

TABLE 7 TECHNOLOGY ANALYSIS

5.4 TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES

FIGURE 24 REVENUE SHIFT & NEW POCKETS FOR HTS SOLUTIONS PROVIDERS

5.5 PRICING ANALYSIS

5.5.1 AVERAGE SELLING PRICES OF KEY PLAYERS (GLOBAL)

TABLE 8 AVERAGE SELLING PRICES

5.5.2 AVERAGE SELLING PRICE TREND

5.6 VALUE CHAIN ANALYSIS

FIGURE 25 MAJOR VALUE IS ADDED DURING MANUFACTURING AND ASSEMBLY PHASE

5.7 SUPPLY CHAIN ANALYSIS

FIGURE 26 DIRECT DISTRIBUTION—STRATEGY PREFERRED BY PROMINENT COMPANIES

5.8 ECOSYSTEM ANALYSIS

FIGURE 27 ECOSYSTEM ANALYSIS: HTS MARKET

TABLE 9 OVERALL MARKET ECOSYSTEM FOR HTS

5.9 PATENT ANALYSIS

FIGURE 28 HTS MARKET: PATENT GRANTED (JANUARY 2013–MAY 2023)

5.10 REGULATORY ANALYSIS

5.10.1 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 10 NORTH AMERICA: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 11 EUROPE: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 12 ASIA PACIFIC: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 13 REST OF THE WORLD: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

5.11 PORTER'S FIVE FORCES ANALYSIS

TABLE 14 HTS MARKET: PORTER'S FIVE FORCES ANALYSIS

5.11.1 THREAT OF NEW ENTRANTS

5.11.2 THREAT OF SUBSTITUTES

5.11.3 BARGAINING POWER OF BUYERS

5.11.4 BARGAINING POWER OF SUPPLIERS

5.11.5 INTENSITY OF COMPETITIVE RIVALRY

5.12 KEY CONFERENCES & EVENTS IN 2022–2023

TABLE 15 HTS MARKET: DETAILED LIST OF CONFERENCES & EVENTS

5.13 KEY STAKEHOLDERS AND BUYING CRITERIA

5.13.1 KEY STAKEHOLDERS IN BUYING PROCESS

FIGURE 29 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS OF HTS TECHNOLOGIES

5.13.2 BUYING CRITERIA FOR DRUG DISCOVERY SERVICES

FIGURE 30 KEY BUYING CRITERIA FOR END USERS

6 HIGH-THROUGHPUT SCREENING MARKET, BY PRODUCT & SERVICE

6.1 INTRODUCTION

TABLE 16 HTS MARKET, BY PRODUCT & SERVICE, 2021–2028 (USD MILLION)

6.2 CONSUMABLES

TABLE 17 HTS CONSUMABLES MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 18 HTS CONSUMABLES MARKET, BY REGION, 2021–2028 (USD MILLION)

TABLE 19 NORTH AMERICA: HTS CONSUMABLES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 20 EUROPE: HTS CONSUMABLES MARKET, BY COUNTRY, 2021–2028

(USD MILLION)

TABLE 21 ASIA PACIFIC: HTS CONSUMABLES MARKET, BY COUNTRY, 2021–2028

(USD MILLION)

TABLE 22 LATIN AMERICA: HTS CONSUMABLES MARKET, BY COUNTRY,
2021–2028 (USD MILLION)

6.2.1 REAGENTS & ASSAY KITS

6.2.1.1 Wide applications in life sciences research to support demand for
consumables

TABLE 23 HTS REAGENTS & ASSAY KITS MARKET, BY REGION, 2021–2028 (USD
MILLION)

TABLE 24 NORTH AMERICA: HTS REAGENTS & ASSAY KITS MARKET, BY
COUNTRY, 2021–2028 (USD MILLION)

TABLE 25 EUROPE: HTS REAGENTS & ASSAY KITS MARKET, BY COUNTRY,
2021–2028 (USD MILLION)

TABLE 26 ASIA PACIFIC: HTS REAGENTS & ASSAY KITS MARKET, BY COUNTRY,
2021–2028 (USD MILLION)

TABLE 27 LATIN AMERICA: HTS REAGENTS & ASSAY KITS MARKET, BY
COUNTRY, 2021–2028 (USD MILLION)

6.2.2 LABORATORY EQUIPMENT

6.2.2.1 Development of high-quality equipment to drive market

TABLE 28 HTS LABORATORY EQUIPMENT MARKET, BY REGION, 2021–2028 (USD
MILLION)

TABLE 29 NORTH AMERICA: HTS LABORATORY EQUIPMENT MARKET, BY
COUNTRY, 2021–2028 (USD MILLION)

TABLE 30 EUROPE: HTS LABORATORY EQUIPMENT MARKET, BY COUNTRY,
2021–2028 (USD MILLION)

TABLE 31 ASIA PACIFIC: HTS LABORATORY EQUIPMENT MARKET, BY
COUNTRY, 2021–2028 (USD MILLION)

TABLE 32 LATIN AMERICA: HTS LABORATORY EQUIPMENT MARKET, BY
COUNTRY, 2021–2028 (USD MILLION)

6.3 INSTRUMENTS

TABLE 33 HTS INSTRUMENTS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 34 HTS INSTRUMENTS MARKET, BY REGION, 2021–2028 (USD MILLION)

TABLE 35 NORTH AMERICA: HTS INSTRUMENTS MARKET, BY COUNTRY,
2021–2028 (USD MILLION)

TABLE 36 EUROPE: HTS INSTRUMENTS MARKET, BY COUNTRY, 2021–2028 (USD
MILLION)

TABLE 37 ASIA PACIFIC: HTS INSTRUMENTS MARKET, BY COUNTRY, 2021–2028
(USD MILLION)

TABLE 38 LATIN AMERICA: HTS INSTRUMENTS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

6.3.1 LIQUID HANDLING SYSTEMS

6.3.1.1 Increased innovation and automation to drive market

TABLE 39 HTS LIQUID HANDLING SYSTEMS MARKET, BY REGION, 2021–2028 (USD MILLION)

TABLE 40 NORTH AMERICA: HTS LIQUID HANDLING SYSTEMS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 41 EUROPE: HTS LIQUID HANDLING SYSTEMS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 42 ASIA PACIFIC: HTS LIQUID HANDLING SYSTEMS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 43 LATIN AMERICA: HTS LIQUID HANDLING SYSTEMS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

6.3.2 DETECTION SYSTEMS

6.3.2.1 Demand for high-throughput capabilities to support growth

TABLE 44 HTS DETECTION SYSTEMS MARKET, BY REGION, 2021–2028 (USD MILLION)

TABLE 45 NORTH AMERICA: HTS DETECTION SYSTEMS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 46 EUROPE: HTS DETECTION SYSTEMS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 47 ASIA PACIFIC: HTS DETECTION SYSTEMS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 48 LATIN AMERICA: HTS DETECTION SYSTEMS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

6.3.3 OTHER INSTRUMENTS

TABLE 49 HTS MARKET FOR OTHER INSTRUMENTS, BY REGION, 2021–2028 (USD MILLION)

TABLE 50 NORTH AMERICA: HTS MARKET FOR OTHER INSTRUMENTS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 51 EUROPE: HTS MARKET FOR OTHER INSTRUMENTS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 52 ASIA PACIFIC: HTS MARKET FOR OTHER INSTRUMENTS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 53 LATIN AMERICA: HTS MARKET FOR OTHER INSTRUMENTS, BY COUNTRY, 2021–2028 (USD MILLION)

6.4 SERVICES

6.4.1 NEED FOR COST OPTIMIZATION AND ACCESS TO SPECIALIZED

EXPERTISE TO BOOST DEMAND

TABLE 54 HTS SERVICES MARKET, BY REGION, 2021–2028 (USD MILLION)

TABLE 55 NORTH AMERICA: HTS SERVICES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 56 EUROPE: HTS SERVICES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 57 ASIA PACIFIC: HTS SERVICES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 58 LATIN AMERICA: HTS SERVICES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

6.5 SOFTWARE

6.5.1 RISING AUTOMATION AND AVAILABILITY OF ROBUST DATA

MANAGEMENT SOFTWARE TOOLS TO DRIVE MARKET

TABLE 59 HTS SOFTWARE MARKET, BY REGION, 2021–2028 (USD MILLION)

TABLE 60 NORTH AMERICA: HTS SOFTWARE MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 61 EUROPE: HTS SOFTWARE MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 62 ASIA PACIFIC: HTS SOFTWARE MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 63 LATIN AMERICA: HTS SOFTWARE MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

7 HIGH-THROUGHPUT SCREENING MARKET, BY TECHNOLOGY

7.1 INTRODUCTION

TABLE 64 HTS MARKET, BY TECHNOLOGY, 2021–2028 (USD MILLION)

7.2 CELL-BASED ASSAYS

TABLE 65 COMPARISON OF 2D AND 3D CELL CULTURE

TABLE 66 HTS MARKET FOR CELL-BASED ASSAYS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 67 HTS MARKET FOR CELL-BASED ASSAYS, BY REGION, 2021–2028 (USD MILLION)

TABLE 68 NORTH AMERICA: HTS MARKET FOR CELL-BASED ASSAYS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 69 EUROPE: HTS MARKET FOR CELL-BASED ASSAYS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 70 ASIA PACIFIC: HTS MARKET FOR CELL-BASED ASSAYS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 71 LATIN AMERICA: HTS MARKET FOR CELL-BASED ASSAYS, BY COUNTRY, 2021–2028 (USD MILLION)

7.2.1 2D CELL CULTURE

TABLE 72 HTS MARKET FOR 2D CELL CULTURE, BY REGION, 2021–2028 (USD MILLION)

TABLE 73 NORTH AMERICA: HTS MARKET FOR 2D CELL CULTURE, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 74 EUROPE: HTS MARKET FOR 2D CELL CULTURE, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 75 ASIA PACIFIC: HTS MARKET FOR 2D CELL CULTURE, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 76 LATIN AMERICA: HTS MARKET FOR 2D CELL CULTURE BY COUNTRY, 2021–2028 (USD MILLION)

7.2.2 3D CELL CULTURE

TABLE 77 HTS MARKET FOR 3D CELL CULTURE, BY TYPE, 2021–2028 (USD MILLION)

TABLE 78 HTS MARKET FOR 3D CELL CULTURE, BY REGION, 2021–2028 (USD MILLION)

TABLE 79 NORTH AMERICA: HTS MARKET FOR 3D CELL CULTURE, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 80 EUROPE: HTS MARKET FOR 3D CELL CULTURE, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 81 ASIA PACIFIC: HTS MARKET FOR 3D CELL CULTURE, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 82 LATIN AMERICA: HTS MARKET FOR 3D CELL CULTURE, BY COUNTRY, 2021–2028 (USD MILLION)

7.2.2.1 Scaffold-based technology

TABLE 83 HTS MARKET FOR SCAFFOLD-BASED TECHNOLOGY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 84 HTS MARKET FOR SCAFFOLD-BASED TECHNOLOGY, BY REGION, 2021–2028 (USD MILLION)

TABLE 85 NORTH AMERICA: HTS MARKET FOR SCAFFOLD-BASED TECHNOLOGY, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 86 EUROPE: HTS MARKET FOR SCAFFOLD-BASED TECHNOLOGY, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 87 ASIA PACIFIC: HTS MARKET FOR SCAFFOLD-BASED TECHNOLOGY, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 88 LATIN AMERICA: HTS MARKET FOR SCAFFOLD-BASED TECHNOLOGY, BY COUNTRY, 2021–2028 (USD MILLION)

7.2.2.1.1 Hydrogels

TABLE 89 HTS MARKET FOR HYDROGELS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 90 HTS MARKET FOR HYDROGELS, BY REGION, 2021–2028 (USD MILLION)

TABLE 91 NORTH AMERICA: HTS MARKET FOR HYDROGELS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 92 EUROPE: HTS MARKET FOR HYDROGELS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 93 ASIA PACIFIC: HTS MARKET FOR HYDROGELS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 94 LATIN AMERICA: HTS MARKET FOR HYDROGELS, BY COUNTRY, 2021–2028 (USD MILLION)

7.2.2.1.1.1 Animal-derived hydrogels

TABLE 95 HTS MARKET FOR ANIMAL-DERIVED HYDROGELS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 96 HTS MARKET FOR ANIMAL-DERIVED HYDROGELS, BY REGION, 2021–2028 (USD MILLION)

TABLE 97 NORTH AMERICA: HTS MARKET FOR ANIMAL-DERIVED HYDROGELS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 98 EUROPE: HTS MARKET FOR ANIMAL-DERIVED HYDROGELS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 99 ASIA PACIFIC: HTS MARKET FOR ANIMAL-DERIVED HYDROGELS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 100 LATIN AMERICA: HTS MARKET FOR ANIMAL-DERIVED HYDROGELS, BY COUNTRY, 2021–2028 (USD MILLION)

7.2.2.1.1.1.1 Matrigel

TABLE 101 HTS MARKET FOR MATRIGEL, BY REGION, 2021–2028 (USD MILLION)

TABLE 102 NORTH AMERICA: HTS MARKET FOR MATRIGEL, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 103 EUROPE: HTS MARKET FOR MATRIGEL, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 104 ASIA PACIFIC: HTS MARKET FOR MATRIGEL, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 105 LATIN AMERICA: HTS MARKET FOR MATRIGEL, BY COUNTRY, 2021–2028 (USD MILLION)

7.2.2.1.1.1.2 Collagen

TABLE 106 HTS MARKET FOR COLLAGEN, BY REGION, 2021–2028 (USD MILLION)

TABLE 107 NORTH AMERICA: HTS MARKET FOR COLLAGEN, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 108 EUROPE: HTS MARKET FOR COLLAGEN, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 109 ASIA PACIFIC: HTS MARKET FOR COLLAGEN, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 110 LATIN AMERICA: HTS MARKET FOR COLLAGEN, BY COUNTRY, 2021–2028 (USD MILLION)

7.2.2.1.1.2 Synthetic hydrogels

TABLE 111 HTS MARKET FOR SYNTHETIC HYDROGELS, BY REGION, 2021–2028 (USD MILLION)

TABLE 112 NORTH AMERICA: HTS MARKET FOR SYNTHETIC HYDROGELS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 113 EUROPE: HTS MARKET FOR SYNTHETIC HYDROGELS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 114 ASIA PACIFIC: HTS MARKET FOR SYNTHETIC HYDROGELS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 115 LATIN AMERICA: HTS MARKET FOR SYNTHETIC HYDROGELS, BY COUNTRY, 2021–2028 (USD MILLION)

7.2.2.1.1.3 Alginate/Agarose

TABLE 116 HTS MARKET FOR ALGINATE/AGAROSE, BY REGION, 2021–2028 (USD MILLION)

TABLE 117 NORTH AMERICA: HTS MARKET FOR ALGINATE/AGAROSE, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 118 EUROPE: HTS MARKET FOR ALGINATE/AGAROSE, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 119 ASIA PACIFIC: HTS MARKET FOR ALGINATE/AGAROSE, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 120 LATIN AMERICA: HTS MARKET FOR ALGINATE/AGAROSE, BY COUNTRY, 2021–2028 (USD MILLION)

7.2.2.1.2 Inert matrix/Solid scaffolds

TABLE 121 HTS MARKET FOR INERT MATRIX/SOLID SCAFFOLDS, BY REGION, 2021–2028 (USD MILLION)

TABLE 122 NORTH AMERICA: HTS MARKET FOR INERT MATRIX/SOLID SCAFFOLDS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 123 EUROPE: HTS MARKET FOR INERT MATRIX/SOLID SCAFFOLDS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 124 ASIA PACIFIC: HTS MARKET FOR INERT MATRIX/SOLID SCAFFOLDS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 125 LATIN AMERICA: HTS MARKET FOR INERT MATRIX/SOLID SCAFFOLDS, BY COUNTRY, 2021–2028 (USD MILLION)

7.2.2.1.3 Micropatterned surfaces

TABLE 126 HTS MARKET FOR MICROPATTERNED SURFACES, BY REGION, 2021–2028 (USD MILLION)

TABLE 127 NORTH AMERICA: HTS MARKET FOR MICROPATTERNED SURFACES, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 128 EUROPE: HTS MARKET FOR MICROPATTERNED SURFACES, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 129 ASIA PACIFIC: HTS MARKET FOR MICROPATTERNED SURFACES, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 130 LATIN AMERICA: HTS MARKET FOR MICROPATTERNED SURFACES, BY COUNTRY, 2021–2028 (USD MILLION)

7.2.2.2 Scaffold-free technology

TABLE 131 HTS MARKET FOR SCAFFOLD-FREE TECHNOLOGY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 132 HTS MARKET FOR SCAFFOLD-FREE TECHNOLOGY, BY REGION, 2021–2028 (USD MILLION)

TABLE 133 NORTH AMERICA: HTS MARKET FOR SCAFFOLD-FREE TECHNOLOGY, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 134 EUROPE: HTS MARKET FOR SCAFFOLD-FREE TECHNOLOGY, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 135 ASIA PACIFIC: HTS MARKET FOR SCAFFOLD-FREE TECHNOLOGY, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 136 LATIN AMERICA: HTS MARKET FOR SCAFFOLD-FREE TECHNOLOGY, BY COUNTRY, 2021–2028 (USD MILLION)

7.2.2.2.1 Ultra-low binding plates

TABLE 137 HTS MARKET FOR ULTRA-LOW BINDING PLATES, BY REGION, 2021–2028 (USD MILLION)

TABLE 138 NORTH AMERICA: HTS MARKET FOR ULTRA-LOW BINDING PLATES, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 139 EUROPE: HTS MARKET FOR ULTRA-LOW BINDING PLATES, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 140 ASIA PACIFIC: HTS MARKET FOR ULTRA-LOW BINDING PLATES, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 141 LATIN AMERICA: HTS MARKET FOR ULTRA-LOW BINDING PLATES, BY COUNTRY, 2021–2028 (USD MILLION)

7.2.2.2.2 Hanging-drop plates

TABLE 142 HTS MARKET FOR HANGING-DROP PLATES, BY REGION, 2021–2028 (USD MILLION)

TABLE 143 NORTH AMERICA: HTS MARKET FOR HANGING-DROP PLATES, BY

COUNTRY, 2021–2028 (USD MILLION)

TABLE 144 EUROPE: HTS MARKET FOR HANGING-DROP PLATES, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 145 ASIA PACIFIC: HTS MARKET FOR HANGING-DROP PLATES, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 146 LATIN AMERICA: HTS MARKET FOR HANGING-DROP PLATES, BY COUNTRY, 2021–2028 (USD MILLION)

7.2.2.2.3 Other scaffold-free technologies

TABLE 147 HTS MARKET FOR OTHER SCAFFOLD-FREE TECHNOLOGIES, BY REGION, 2021–2028 (USD MILLION)

TABLE 148 NORTH AMERICA: HTS MARKET FOR OTHER SCAFFOLD-FREE TECHNOLOGIES, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 149 EUROPE: HTS MARKET FOR OTHER SCAFFOLD-FREE TECHNOLOGIES, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 150 ASIA PACIFIC: HTS MARKET FOR OTHER SCAFFOLD-FREE TECHNOLOGIES, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 151 LATIN AMERICA: HTS MARKET FOR OTHER SCAFFOLD-FREE TECHNOLOGIES, BY COUNTRY, 2021–2028 (USD MILLION)

7.2.3 REPORTER-BASED ASSAYS

TABLE 152 HTS MARKET FOR REPORTER-BASED ASSAYS, BY REGION, 2021–2028 (USD MILLION)

TABLE 153 NORTH AMERICA: HTS MARKET FOR REPORTER-BASED ASSAYS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 154 EUROPE: HTS MARKET FOR REPORTER-BASED ASSAYS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 155 ASIA PACIFIC: HTS MARKET FOR REPORTER-BASED ASSAYS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 156 LATIN AMERICA: HTS MARKET FOR REPORTER-BASED ASSAYS, BY COUNTRY, 2021–2028 (USD MILLION)

7.2.4 PERFUSION CELL CULTURE

TABLE 157 HTS MARKET FOR PERFUSION CELL CULTURE, BY REGION, 2021–2028 (USD MILLION)

TABLE 158 NORTH AMERICA: HTS MARKET FOR PERFUSION CELL CULTURE, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 159 EUROPE: HTS MARKET FOR PERFUSION CELL CULTURE, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 160 ASIA PACIFIC: HTS MARKET FOR PERFUSION CELL CULTURE, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 161 LATIN AMERICA: HTS MARKET FOR PERFUSION CELL CULTURE, BY

COUNTRY, 2021–2028 (USD MILLION)

7.3 LAB-ON-A-CHIP TECHNOLOGY

TABLE 162 HTS MARKET FOR LAB-ON-A-CHIP TECHNOLOGY, BY REGION, 2021–2028 (USD MILLION)

TABLE 163 NORTH AMERICA: HTS MARKET FOR LAB-ON-A-CHIP TECHNOLOGY, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 164 EUROPE: HTS MARKET FOR LAB-ON-A-CHIP TECHNOLOGY, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 165 ASIA PACIFIC: HTS MARKET FOR LAB-ON-A-CHIP TECHNOLOGY, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 166 LATIN AMERICA: HTS MARKET FOR LAB-ON-A-CHIP TECHNOLOGY, BY COUNTRY, 2021–2028 (USD MILLION)

7.4 LABEL-FREE TECHNOLOGY

TABLE 167 HTS MARKET FOR LABEL-FREE TECHNOLOGY, BY REGION, 2021–2028 (USD MILLION)

TABLE 168 NORTH AMERICA: HTS MARKET FOR LABEL-FREE TECHNOLOGY, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 169 EUROPE: HTS MARKET FOR LABEL-FREE TECHNOLOGY, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 170 ASIA PACIFIC: HTS MARKET FOR LABEL-FREE TECHNOLOGY, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 171 LATIN AMERICA: HTS MARKET FOR LABEL-FREE TECHNOLOGY, BY COUNTRY, 2021–2028 (USD MILLION)

8 HIGH-THROUGHPUT SCREENING MARKET, BY APPLICATION

8.1 INTRODUCTION

TABLE 172 HTS MARKET, BY APPLICATION, 2021–2028 (USD MILLION)

8.2 DRUG DISCOVERY

8.2.1 DEMAND FOR EFFICIENT AND EFFECTIVE METHODS TO IDENTIFY AND DEVELOP DRUG CANDIDATES TO DRIVE MARKET

TABLE 173 HTS MARKET FOR DRUG DISCOVERY, BY REGION, 2021–2028 (USD MILLION)

TABLE 174 NORTH AMERICA: HTS MARKET FOR DRUG DISCOVERY, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 175 EUROPE: HTS MARKET FOR DRUG DISCOVERY, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 176 ASIA PACIFIC: HTS MARKET FOR DRUG DISCOVERY, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 177 LATIN AMERICA: HTS MARKET FOR DRUG DISCOVERY, BY COUNTRY, 2021–2028 (USD MILLION)

8.3 BIOCHEMICAL SCREENING

8.3.1 GROWING AWARENESS OF GENETIC DISORDERS AND SCREENING TESTS TO DRIVE MARKET

TABLE 178 HTS MARKET FOR BIOCHEMICAL SCREENING, BY REGION, 2021–2028 (USD MILLION)

TABLE 179 NORTH AMERICA: HTS MARKET FOR BIOCHEMICAL SCREENING, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 180 EUROPE: HTS MARKET FOR BIOCHEMICAL SCREENING, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 181 ASIA PACIFIC: HTS MARKET FOR BIOCHEMICAL SCREENING, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 182 LATIN AMERICA: HTS MARKET FOR BIOCHEMICAL SCREENING, BY COUNTRY, 2021–2028 (USD MILLION)

8.4 LIFE SCIENCES RESEARCH

8.4.1 INCREASING INVESTMENTS IN STEM CELL RESEARCH AND STUDY OF INFECTIOUS DISEASES TO DRIVE MARKET

TABLE 183 HTS MARKET FOR LIFE SCIENCES RESEARCH, BY REGION, 2021–2028 (USD MILLION)

TABLE 184 NORTH AMERICA: HTS MARKET FOR LIFE SCIENCES RESEARCH, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 185 EUROPE: HTS MARKET FOR LIFE SCIENCES RESEARCH, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 186 ASIA PACIFIC: HTS MARKET FOR LIFE SCIENCES RESEARCH, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 187 LATIN AMERICA: HTS MARKET FOR LIFE SCIENCES RESEARCH, BY COUNTRY, 2021–2028 (USD MILLION)

8.5 OTHER APPLICATIONS

TABLE 188 HTS MARKET FOR OTHER APPLICATIONS, BY REGION, 2021–2028 (USD MILLION)

TABLE 189 NORTH AMERICA: HTS MARKET FOR OTHER APPLICATIONS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 190 EUROPE: HTS MARKET FOR OTHER APPLICATIONS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 191 ASIA PACIFIC: HTS MARKET FOR OTHER APPLICATIONS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 192 LATIN AMERICA: HTS MARKET FOR OTHER APPLICATIONS, BY COUNTRY, 2021–2028 (USD MILLION)

9 HIGH-THROUGHPUT SCREENING MARKET, BY END USER

9.1 INTRODUCTION

TABLE 193 HTS MARKET, BY END USER, 2021–2028 (USD MILLION)

9.2 PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES

9.2.1 DEMAND FOR MINIATURIZED SCREENING SOLUTIONS IN LEAD DISCOVERY TO SUPPORT MARKET GROWTH

TABLE 194 HTS MARKET FOR PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES, BY REGION, 2021–2028 (USD MILLION)

TABLE 195 NORTH AMERICA: HTS MARKET FOR PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 196 EUROPE: HTS MARKET FOR PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 197 ASIA PACIFIC: HTS MARKET FOR PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 198 LATIN AMERICA: HTS MARKET FOR PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES, BY COUNTRY, 2021–2028 (USD MILLION)

9.3 ACADEMIC & RESEARCH INSTITUTES

9.3.1 ADOPTION OF HIGH-THROUGHPUT SCREENING IN COLLABORATIVE RESEARCH TO DRIVE MARKET

TABLE 199 HTS MARKET FOR ACADEMIC & RESEARCH INSTITUTES, BY REGION, 2021–2028 (USD MILLION)

TABLE 200 NORTH AMERICA: HTS MARKET FOR ACADEMIC & RESEARCH INSTITUTES, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 201 EUROPE: HTS MARKET FOR ACADEMIC & RESEARCH INSTITUTES, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 202 ASIA PACIFIC: HTS MARKET FOR ACADEMIC & RESEARCH INSTITUTES, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 203 LATIN AMERICA: HTS MARKET FOR ACADEMIC & RESEARCH INSTITUTES, BY COUNTRY, 2021–2028 (USD MILLION)

9.4 CONTRACT RESEARCH ORGANIZATIONS

9.4.1 INCREASING OUTSOURCING OF R&D ACTIVITIES TO DRIVE MARKET

TABLE 204 HTS MARKET FOR CROS, BY REGION, 2021–2028 (USD MILLION)

TABLE 205 NORTH AMERICA: HTS MARKET FOR CROS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 206 EUROPE: HTS MARKET FOR CROS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 207 ASIA PACIFIC: HTS MARKET FOR CROS, BY COUNTRY, 2021–2028

(USD MILLION)

TABLE 208 LATIN AMERICA: HTS MARKET FOR CROS, BY COUNTRY, 2021–2028

(USD MILLION)

9.5 OTHER END USERS

TABLE 209 HTS MARKET FOR OTHER END USERS, BY REGION, 2021–2028 (USD MILLION)

TABLE 210 NORTH AMERICA: HTS MARKET FOR OTHER END USERS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 211 EUROPE: HTS MARKET FOR OTHER END USERS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 212 ASIA PACIFIC: HTS MARKET FOR OTHER END USERS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 213 LATIN AMERICA: HTS MARKET FOR OTHER END USERS, BY COUNTRY, 2021–2028 (USD MILLION)

10 HIGH-THROUGHPUT SCREENING MARKET, BY REGION

10.1 INTRODUCTION

TABLE 214 HTS MARKET, BY REGION, 2021–2028 (USD MILLION)

10.2 NORTH AMERICA

10.2.1 NORTH AMERICA: RECESSION IMPACT

FIGURE 31 NORTH AMERICA: HTS MARKET SNAPSHOT

TABLE 215 NORTH AMERICA: HTS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 216 NORTH AMERICA: HTS MARKET, BY PRODUCT & SERVICE, 2021–2028 (USD MILLION)

TABLE 217 NORTH AMERICA: HTS CONSUMABLES MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 218 NORTH AMERICA: HTS INSTRUMENTS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 219 NORTH AMERICA: HTS MARKET, BY TECHNOLOGY, 2021–2028 (USD MILLION)

TABLE 220 NORTH AMERICA: HTS MARKET FOR CELL-BASED ASSAYS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 221 NORTH AMERICA: HTS MARKET FOR 3D CELL CULTURE, BY TYPE, 2021–2028 (USD MILLION)

TABLE 222 NORTH AMERICA: HTS MARKET FOR SCAFFOLD-BASED TECHNOLOGY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 223 NORTH AMERICA: HTS MARKET FOR HYDROGELS, BY TYPE,

2021–2028 (USD MILLION)

TABLE 224 NORTH AMERICA: HTS MARKET FOR ANIMAL-DERIVED HYDROGELS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 225 NORTH AMERICA: HTS MARKET FOR SCAFFOLD-FREE TECHNOLOGY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 226 NORTH AMERICA: HTS MARKET, BY APPLICATION, 2021–2028 (USD MILLION)

TABLE 227 NORTH AMERICA: HTS MARKET, BY END USER, 2021–2028 (USD MILLION)

10.2.2 US

10.2.2.1 US to dominate market in North America

TABLE 228 US: HTS MARKET, BY PRODUCT & SERVICE, 2021–2028 (USD MILLION)

TABLE 229 US: HTS CONSUMABLES MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 230 US: HTS INSTRUMENTS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 231 US: HTS MARKET, BY TECHNOLOGY, 2021–2028 (USD MILLION)

TABLE 232 US: HTS MARKET FOR CELL-BASED ASSAYS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 233 US: HTS MARKET FOR 3D CELL CULTURE, BY TYPE, 2021–2028 (USD MILLION)

TABLE 234 US: HTS MARKET FOR SCAFFOLD-BASED TECHNOLOGY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 235 US: HTS MARKET FOR HYDROGELS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 236 US: HTS MARKET FOR ANIMAL-DERIVED HYDROGELS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 237 US: HTS MARKET FOR SCAFFOLD-FREE TECHNOLOGY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 238 US: HTS MARKET, BY APPLICATION, 2021–2028 (USD MILLION)

TABLE 239 US: HTS MARKET, BY END USER, 2021–2028 (USD MILLION)

10.2.3 CANADA

10.2.3.1 Government initiatives to promote research and support market growth

TABLE 240 CANADA: HTS MARKET, BY PRODUCT & SERVICE, 2021–2028 (USD MILLION)

TABLE 241 CANADA: HTS CONSUMABLES MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 242 CANADA: HTS INSTRUMENTS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 243 CANADA: HTS MARKET, BY TECHNOLOGY, 2021–2028 (USD MILLION)

TABLE 244 CANADA: HTS MARKET FOR CELL-BASED ASSAYS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 245 CANADA: HTS MARKET FOR 3D CELL CULTURE, BY TYPE, 2021–2028 (USD MILLION)

TABLE 246 CANADA: HTS MARKET FOR SCAFFOLD-BASED TECHNOLOGY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 247 CANADA: HTS MARKET FOR HYDROGELS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 248 CANADA: HTS MARKET FOR ANIMAL-DERIVED HYDROGELS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 249 CANADA: HTS MARKET FOR SCAFFOLD-FREE TECHNOLOGY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 250 CANADA: HTS MARKET, BY APPLICATION, 2021–2028 (USD MILLION)

TABLE 251 CANADA: HTS MARKET, BY END USER, 2021–2028 (USD MILLION)

10.3 EUROPE

10.3.1 EUROPE: RECESSION IMPACT

TABLE 252 EUROPE: HTS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 253 EUROPE: HTS MARKET, BY PRODUCT & SERVICE, 2021–2028 (USD MILLION)

TABLE 254 EUROPE: HTS CONSUMABLES MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 255 EUROPE: HTS INSTRUMENTS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 256 EUROPE: HTS MARKET, BY TECHNOLOGY, 2021–2028 (USD MILLION)

TABLE 257 EUROPE: HTS MARKET FOR CELL-BASED ASSAYS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 258 EUROPE: HTS MARKET FOR 3D CELL CULTURE, BY TYPE, 2021–2028 (USD MILLION)

TABLE 259 EUROPE: HTS MARKET FOR SCAFFOLD-BASED TECHNOLOGY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 260 EUROPE: HTS MARKET FOR HYDROGELS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 261 EUROPE: HTS MARKET FOR ANIMAL-DERIVED HYDROGELS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 262 EUROPE: HTS MARKET FOR SCAFFOLD-FREE TECHNOLOGY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 263 EUROPE: HTS MARKET, BY APPLICATION, 2021–2028 (USD MILLION)

TABLE 264 EUROPE: HTS MARKET, BY END USER, 2021–2028 (USD MILLION)

10.3.2 GERMANY

10.3.2.1 Increasing research activity to favor demand for screening solutions

TABLE 265 GERMANY: HTS MARKET, BY PRODUCT & SERVICE, 2021–2028 (USD MILLION)

TABLE 266 GERMANY: HTS CONSUMABLES MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 267 GERMANY: HTS INSTRUMENTS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 268 GERMANY: HTS MARKET, BY TECHNOLOGY, 2021–2028 (USD MILLION)

TABLE 269 GERMANY: HTS MARKET FOR CELL-BASED ASSAYS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 270 GERMANY: HTS MARKET FOR 3D CELL CULTURE, BY TYPE, 2021–2028 (USD MILLION)

TABLE 271 GERMANY: HTS MARKET FOR SCAFFOLD-BASED TECHNOLOGY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 272 GERMANY: HTS MARKET FOR HYDROGELS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 273 GERMANY: HTS MARKET FOR ANIMAL-DERIVED HYDROGELS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 274 GERMANY: HTS MARKET FOR SCAFFOLD-FREE TECHNOLOGY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 275 GERMANY: HTS MARKET, BY APPLICATION, 2021–2028 (USD MILLION)

TABLE 276 GERMANY: HTS MARKET, BY END USER, 2021–2028 (USD MILLION)

10.3.3 UK

10.3.3.1 Investments by pharmaceutical sponsors for drug discovery services to support market

FIGURE 32 UK: PHARMACEUTICAL R&D EXPENDITURE, 2011–2020 (USD MILLION)

TABLE 277 UK: HTS MARKET, BY PRODUCT & SERVICE, 2021–2028 (USD MILLION)

TABLE 278 UK: HTS CONSUMABLES MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 279 UK: HTS INSTRUMENTS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 280 UK: HTS MARKET, BY TECHNOLOGY, 2021–2028 (USD MILLION)

TABLE 281 UK: HTS MARKET FOR CELL-BASED ASSAYS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 282 UK: HTS MARKET FOR 3D CELL CULTURE, BY TYPE, 2021–2028 (USD MILLION)

MILLION)

TABLE 283 UK: HTS MARKET FOR SCAFFOLD-BASED TECHNOLOGY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 284 UK: HTS MARKET FOR HYDROGELS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 285 UK: HTS MARKET FOR ANIMAL-DERIVED HYDROGELS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 286 UK: HTS MARKET FOR SCAFFOLD-FREE TECHNOLOGY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 287 UK: HTS MARKET, BY APPLICATION, 2021–2028 (USD MILLION)

TABLE 288 UK: HTS MARKET, BY END USER, 2021–2028 (USD MILLION)

10.3.4 FRANCE

10.3.4.1 Large pharmaceutical manufacturing industry to drive market

TABLE 289 FRANCE: HTS MARKET, BY PRODUCT & SERVICE, 2021–2028 (USD MILLION)

TABLE 290 FRANCE: HTS CONSUMABLES MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 291 FRANCE: HTS INSTRUMENTS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 292 FRANCE: HTS MARKET, BY TECHNOLOGY, 2021–2028 (USD MILLION)

TABLE 293 FRANCE: HTS MARKET FOR CELL-BASED ASSAYS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 294 FRANCE: HTS MARKET FOR 3D CELL CULTURE, BY TYPE, 2021–2028 (USD MILLION)

TABLE 295 FRANCE: HTS MARKET FOR SCAFFOLD-BASED TECHNOLOGY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 296 FRANCE: HTS MARKET FOR HYDROGELS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 297 FRANCE: HTS MARKET FOR ANIMAL-DERIVED HYDROGELS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 298 FRANCE: HTS MARKET FOR SCAFFOLD-FREE TECHNOLOGY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 299 FRANCE: HTS MARKET, BY APPLICATION, 2021–2028 (USD MILLION)

TABLE 300 FRANCE: HTS MARKET, BY END USER, 2021–2028 (USD MILLION)

10.3.5 ITALY

10.3.5.1 Strong collaborative research networks to fuel growth

TABLE 301 ITALY: HTS MARKET, BY PRODUCT & SERVICE, 2021–2028 (USD MILLION)

TABLE 302 ITALY: HTS CONSUMABLES MARKET, BY TYPE, 2021–2028 (USD

MILLION)

TABLE 303 ITALY: HTS INSTRUMENTS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 304 ITALY: HTS MARKET, BY TECHNOLOGY, 2021–2028 (USD MILLION)

TABLE 305 ITALY: HTS MARKET FOR CELL-BASED ASSAYS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 306 ITALY: HTS MARKET FOR 3D CELL CULTURE, BY TYPE, 2021–2028 (USD MILLION)

TABLE 307 ITALY: HTS MARKET FOR SCAFFOLD-BASED TECHNOLOGY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 308 ITALY: HTS MARKET FOR HYDROGELS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 309 ITALY: HTS MARKET FOR ANIMAL-DERIVED HYDROGELS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 310 ITALY: HTS MARKET FOR SCAFFOLD-FREE TECHNOLOGY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 311 ITALY: HTS MARKET, BY APPLICATION, 2021–2028 (USD MILLION)

TABLE 312 ITALY: HTS MARKET, BY END USER, 2021–2028 (USD MILLION)

10.3.6 SPAIN

10.3.6.1 Rising R&D expenditure and increasing public-private partnerships to drive market

TABLE 313 SPAIN: HTS MARKET, BY PRODUCT & SERVICE, 2021–2028 (USD MILLION)

TABLE 314 SPAIN: HTS CONSUMABLES MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 315 SPAIN: HTS INSTRUMENTS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 316 SPAIN: HTS MARKET, BY TECHNOLOGY, 2021–2028 (USD MILLION)

TABLE 317 SPAIN: HTS MARKET FOR CELL-BASED ASSAYS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 318 SPAIN: HTS MARKET FOR 3D CELL CULTURE, BY TYPE, 2021–2028 (USD MILLION)

TABLE 319 SPAIN: HTS MARKET FOR SCAFFOLD-BASED TECHNOLOGY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 320 SPAIN: HTS MARKET FOR HYDROGELS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 321 SPAIN: HTS MARKET FOR ANIMAL-DERIVED HYDROGELS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 322 SPAIN: HTS MARKET FOR SCAFFOLD-FREE TECHNOLOGY, BY TYPE,

2021–2028 (USD MILLION)

TABLE 323 SPAIN: HTS MARKET, BY APPLICATION, 2021–2028 (USD MILLION)

TABLE 324 SPAIN: HTS MARKET, BY END USER, 2021–2028 (USD MILLION)

10.3.7 REST OF EUROPE

TABLE 325 REST OF EUROPE: HTS MARKET, BY PRODUCT & SERVICE, 2021–2028 (USD MILLION)

TABLE 326 REST OF EUROPE: HTS CONSUMABLES MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 327 REST OF EUROPE: HTS INSTRUMENTS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 328 REST OF EUROPE: HTS MARKET, BY TECHNOLOGY, 2021–2028 (USD MILLION)

TABLE 329 REST OF EUROPE: HTS MARKET FOR CELL-BASED ASSAYS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 330 REST OF EUROPE: HTS MARKET FOR 3D CELL CULTURE, BY TYPE, 2021–2028 (USD MILLION)

TABLE 331 REST OF EUROPE: HTS MARKET FOR SCAFFOLD-BASED TECHNOLOGY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 332 REST OF EUROPE: HTS MARKET FOR HYDROGELS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 333 REST OF EUROPE: HTS MARKET FOR ANIMAL-DERIVED HYDROGELS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 334 REST OF EUROPE: HTS MARKET FOR SCAFFOLD-FREE TECHNOLOGY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 335 REST OF EUROPE: HTS MARKET, BY APPLICATION, 2021–2028 (USD MILLION)

TABLE 336 REST OF EUROPE: HTS MARKET, BY END USER, 2021–2028 (USD MILLION)

10.4 ASIA PACIFIC

10.4.1 ASIA PACIFIC: RECESSION IMPACT

FIGURE 33 ASIA PACIFIC: HTS MARKET SNAPSHOT

TABLE 337 ASIA PACIFIC: HTS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 338 ASIA PACIFIC: HTS MARKET, BY PRODUCT & SERVICE, 2021–2028 (USD MILLION)

TABLE 339 ASIA PACIFIC: HTS CONSUMABLES MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 340 ASIA PACIFIC: HTS INSTRUMENTS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 341 ASIA PACIFIC: HTS MARKET, BY TECHNOLOGY, 2021–2028 (USD

MILLION)

TABLE 342 ASIA PACIFIC: HTS MARKET FOR CELL-BASED ASSAYS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 343 ASIA PACIFIC: HTS MARKET FOR 3D CELL CULTURE, BY TYPE, 2021–2028 (USD MILLION)

TABLE 344 ASIA PACIFIC: HTS MARKET FOR SCAFFOLD-BASED TECHNOLOGY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 345 ASIA PACIFIC: HTS MARKET FOR HYDROGELS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 346 ASIA PACIFIC: HTS MARKET FOR ANIMAL-DERIVED HYDROGELS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 347 ASIA PACIFIC: HTS MARKET FOR SCAFFOLD-FREE TECHNOLOGY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 348 ASIA PACIFIC: HTS MARKET, BY APPLICATION, 2021–2028 (USD MILLION)

TABLE 349 ASIA PACIFIC: HTS MARKET, BY END USER, 2021–2028 (USD MILLION)

10.4.2 CHINA

10.4.2.1 Presence of key CROs to favor market growth

TABLE 350 CHINA: HTS MARKET, BY PRODUCT & SERVICE, 2021–2028 (USD MILLION)

TABLE 351 CHINA: HTS CONSUMABLES MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 352 CHINA: HTS INSTRUMENTS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 353 CHINA: HTS MARKET, BY TECHNOLOGY, 2021–2028 (USD MILLION)

TABLE 354 CHINA: HTS MARKET FOR CELL-BASED ASSAYS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 355 CHINA: HTS MARKET FOR 3D CELL CULTURE, BY TYPE, 2021–2028 (USD MILLION)

TABLE 356 CHINA: HTS MARKET FOR SCAFFOLD-BASED TECHNOLOGY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 357 CHINA: HTS MARKET FOR HYDROGELS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 358 CHINA: HTS MARKET FOR ANIMAL-DERIVED HYDROGELS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 359 CHINA: HTS MARKET FOR SCAFFOLD-FREE TECHNOLOGY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 360 CHINA: HTS MARKET, BY APPLICATION, 2021–2028 (USD MILLION)

TABLE 361 CHINA: HTS MARKET, BY END USER, 2021–2028 (USD MILLION)

10.4.3 JAPAN

10.4.3.1 Rising prominence of regenerative medicine research to drive market

TABLE 362 JAPAN: HTS MARKET, BY PRODUCT & SERVICE, 2021–2028 (USD MILLION)

TABLE 363 JAPAN: HTS CONSUMABLES MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 364 JAPAN: HTS INSTRUMENTS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 365 JAPAN: HTS MARKET, BY TECHNOLOGY, 2021–2028 (USD MILLION)

TABLE 366 JAPAN: HTS MARKET FOR CELL-BASED ASSAYS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 367 JAPAN: HTS MARKET FOR 3D CELL CULTURE, BY TYPE, 2021–2028 (USD MILLION)

TABLE 368 JAPAN: HTS MARKET FOR SCAFFOLD-BASED TECHNOLOGY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 369 JAPAN: HTS MARKET FOR HYDROGELS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 370 JAPAN: HTS MARKET FOR ANIMAL-DERIVED HYDROGELS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 371 JAPAN: HTS MARKET FOR SCAFFOLD-FREE TECHNOLOGY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 372 JAPAN: HTS MARKET, BY APPLICATION, 2021–2028 (USD MILLION)

TABLE 373 JAPAN: HTS MARKET, BY END USER, 2021–2028 (USD MILLION)

10.4.4 INDIA

10.4.4.1 Low-cost services and strong government support to propel market

TABLE 374 INDIA: HTS MARKET, BY PRODUCT & SERVICE, 2021–2028 (USD MILLION)

TABLE 375 INDIA: HTS CONSUMABLES MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 376 INDIA: HTS INSTRUMENTS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 377 INDIA: HTS MARKET, BY TECHNOLOGY, 2021–2028 (USD MILLION)

TABLE 378 INDIA: HTS MARKET FOR CELL-BASED ASSAYS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 379 INDIA: HTS MARKET FOR 3D CELL CULTURE, BY TYPE, 2021–2028 (USD MILLION)

TABLE 380 INDIA: HTS MARKET FOR SCAFFOLD-BASED TECHNOLOGY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 381 INDIA: HTS MARKET FOR HYDROGELS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 382 INDIA: HTS MARKET FOR ANIMAL-DERIVED HYDROGELS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 383 INDIA: HTS MARKET FOR SCAFFOLD-FREE TECHNOLOGY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 384 INDIA: HTS MARKET, BY APPLICATION, 2021–2028 (USD MILLION)

TABLE 385 INDIA: HTS MARKET, BY END USER, 2021–2028 (USD MILLION)

10.4.5 REST OF ASIA PACIFIC

TABLE 386 REST OF ASIA PACIFIC: HTS MARKET, BY PRODUCT & SERVICE, 2021–2028 (USD MILLION)

TABLE 387 REST OF ASIA PACIFIC: HTS CONSUMABLES MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 388 REST OF ASIA PACIFIC: HTS INSTRUMENTS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 389 REST OF ASIA PACIFIC: HTS MARKET, BY TECHNOLOGY, 2021–2028 (USD MILLION)

TABLE 390 REST OF ASIA PACIFIC: HTS MARKET FOR CELL-BASED ASSAYS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 391 REST OF ASIA PACIFIC: HTS MARKET FOR 3D CELL CULTURE, BY TYPE, 2021–2028 (USD MILLION)

TABLE 392 REST OF ASIA PACIFIC: HTS MARKET FOR SCAFFOLD-BASED TECHNOLOGY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 393 REST OF ASIA PACIFIC: HTS MARKET FOR HYDROGELS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 394 REST OF ASIA PACIFIC: HTS MARKET FOR ANIMAL-DERIVED HYDROGELS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 395 REST OF ASIA PACIFIC: HTS MARKET FOR SCAFFOLD-FREE TECHNOLOGY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 396 REST OF ASIA PACIFIC: HTS MARKET, BY APPLICATION, 2021–2028 (USD MILLION)

TABLE 397 REST OF ASIA PACIFIC: HTS MARKET, BY END USER, 2021–2028 (USD MILLION)

10.5 LATIN AMERICA

10.5.1 LATIN AMERICA: RECESSION IMPACT

TABLE 398 LATIN AMERICA: HTS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 399 LATIN AMERICA: HTS MARKET, BY PRODUCT & SERVICE, 2021–2028 (USD MILLION)

TABLE 400 LATIN AMERICA: HTS CONSUMABLES MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 401 LATIN AMERICA: HTS INSTRUMENTS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 402 LATIN AMERICA: HTS MARKET, BY TECHNOLOGY, 2021–2028 (USD MILLION)

TABLE 403 LATIN AMERICA: HTS MARKET FOR CELL-BASED ASSAYS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 404 LATIN AMERICA: HTS MARKET FOR 3D CELL CULTURE, BY TYPE, 2021–2028 (USD MILLION)

TABLE 405 LATIN AMERICA: HTS MARKET FOR SCAFFOLD-BASED TECHNOLOGY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 406 LATIN AMERICA: HTS MARKET FOR HYDROGELS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 407 LATIN AMERICA: HTS MARKET FOR ANIMAL-DERIVED HYDROGELS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 408 LATIN AMERICA: HTS MARKET FOR SCAFFOLD-FREE TECHNOLOGY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 409 LATIN AMERICA: HTS MARKET, BY APPLICATION, 2021–2028 (USD MILLION)

TABLE 410 LATIN AMERICA: HTS MARKET, BY END USER, 2021–2028 (USD MILLION)

10.5.2 BRAZIL

10.5.2.1 Rising research activity to contribute to growth

TABLE 411 BRAZIL: HTS MARKET, BY PRODUCT & SERVICE, 2021–2028 (USD MILLION)

TABLE 412 BRAZIL: HTS CONSUMABLES MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 413 BRAZIL: HTS INSTRUMENTS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 414 BRAZIL: HTS MARKET, BY TECHNOLOGY, 2021–2028 (USD MILLION)

TABLE 415 BRAZIL: HTS MARKET FOR CELL-BASED ASSAYS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 416 BRAZIL: HTS MARKET FOR 3D CELL CULTURE, BY TYPE, 2021–2028 (USD MILLION)

TABLE 417 BRAZIL: HTS MARKET FOR SCAFFOLD-BASED TECHNOLOGY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 418 BRAZIL: HTS MARKET FOR HYDROGELS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 419 BRAZIL: HTS MARKET FOR ANIMAL-DERIVED HYDROGELS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 420 BRAZIL: HTS MARKET FOR SCAFFOLD-FREE TECHNOLOGY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 421 BRAZIL: HTS MARKET, BY APPLICATION, 2021–2028 (USD MILLION)

TABLE 422 BRAZIL: HTS MARKET, BY END USER, 2021–2028 (USD MILLION)

10.5.3 REST OF LATIN AMERICA

TABLE 423 REST OF LATIN AMERICA: HTS MARKET, BY PRODUCT & SERVICE, 2021–2028 (USD MILLION)

TABLE 424 REST OF LATIN AMERICA: HTS CONSUMABLES MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 425 REST OF LATIN AMERICA: HTS INSTRUMENTS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 426 REST OF LATIN AMERICA: HTS MARKET, BY TECHNOLOGY, 2021–2028 (USD MILLION)

TABLE 427 REST OF LATIN AMERICA: HTS MARKET FOR CELL-BASED ASSAYS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 428 REST OF LATIN AMERICA: HTS MARKET FOR 3D CELL CULTURE, BY TYPE, 2021–2028 (USD MILLION)

TABLE 429 REST OF LATIN AMERICA: HTS MARKET FOR SCAFFOLD-BASED TECHNOLOGY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 430 REST OF LATIN AMERICA: HTS MARKET FOR HYDROGELS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 431 REST OF LATIN AMERICA: HTS MARKET FOR ANIMAL-DERIVED HYDROGELS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 432 REST OF LATIN AMERICA: HTS MARKET FOR SCAFFOLD-FREE TECHNOLOGY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 433 REST OF LATIN AMERICA: HTS MARKET, BY APPLICATION, 2021–2028 (USD MILLION)

TABLE 434 REST OF LATIN AMERICA: HTS MARKET, BY END USER, 2021–2028 (USD MILLION)

10.6 MIDDLE EAST & AFRICA

10.6.1 GROWING PHARMACEUTICAL INDUSTRY TO DRIVE MARKET

10.6.2 MIDDLE EAST & AFRICA: RECESSION IMPACT

TABLE 435 MIDDLE EAST & AFRICA: HTS MARKET, BY PRODUCT & SERVICE, 2021–2028 (USD MILLION)

TABLE 436 MIDDLE EAST & AFRICA: HTS CONSUMABLES MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 437 MIDDLE EAST & AFRICA: HTS INSTRUMENTS MARKET, BY TYPE,

2021–2028 (USD MILLION)

TABLE 438 MIDDLE EAST & AFRICA: HTS MARKET, BY TECHNOLOGY, 2021–2028 (USD MILLION)

TABLE 439 MIDDLE EAST & AFRICA: HTS MARKET FOR CELL-BASED ASSAYS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 440 MIDDLE EAST & AFRICA: HTS MARKET FOR 3D CELL CULTURE, BY TYPE, 2021–2028 (USD MILLION)

TABLE 441 MIDDLE EAST & AFRICA: HTS MARKET FOR SCAFFOLD-BASED TECHNOLOGY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 442 MIDDLE EAST & AFRICA: HTS MARKET FOR HYDROGELS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 443 MIDDLE EAST & AFRICA: HTS MARKET FOR ANIMAL-DERIVED HYDROGELS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 444 MIDDLE EAST & AFRICA: HTS MARKET FOR SCAFFOLD-FREE TECHNOLOGY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 445 MIDDLE EAST & AFRICA: HTS MARKET, BY APPLICATION, 2021–2028 (USD MILLION)

TABLE 446 MIDDLE EAST & AFRICA: HTS MARKET, BY END USER, 2021–2028 (USD MILLION)

11 COMPETITIVE LANDSCAPE

11.1 INTRODUCTION

11.2 STRATEGIES ADOPTED BY KEY PLAYERS

FIGURE 34 HTS MARKET: STRATEGIES ADOPTED BY KEY PLAYERS

11.3 REVENUE SHARE ANALYSIS

FIGURE 35 REVENUE ANALYSIS OF KEY PLAYERS, 2020–2022

11.4 MARKET SHARE ANALYSIS

FIGURE 36 MARKET SHARE ANALYSIS OF KEY PLAYERS, 2022

TABLE 447 HTS MARKET: DEGREE OF COMPETITION

11.5 COMPANY EVALUATION MATRIX FOR KEY PLAYERS, 2022

11.5.1 STARS

11.5.2 EMERGING LEADERS

11.5.3 PERVASIVE PLAYERS

11.5.4 PARTICIPANTS

FIGURE 37 HTS MARKET: COMPANY EVALUATION MATRIX FOR KEY PLAYERS, 2022

11.6 COMPETITIVE BENCHMARKING OF TOP 25 PLAYERS

TABLE 448 COMPANY FOOTPRINT ANALYSIS (KEY PLAYERS)

TABLE 449 PRODUCT FOOTPRINT ANALYSIS (KEY PLAYERS)

TABLE 450 REGIONAL FOOTPRINT ANALYSIS (KEY PLAYERS)

11.7 COMPANY EVALUATION MATRIX FOR START-UPS/SMES, 2022

11.7.1 PROGRESSIVE COMPANIES

11.7.2 STARTING BLOCKS

11.7.3 RESPONSIVE COMPANIES

11.7.4 DYNAMIC COMPANIES

FIGURE 38 HTS MARKET: COMPANY EVALUATION MATRIX FOR START-UPS/SMES, 2022

11.8 COMPETITIVE BENCHMARKING OF START-UPS/SMES

TABLE 451 HTS MARKET: DETAILED LIST OF KEY START-UPS/SMES

TABLE 452 HTS MARKET: COMPETITIVE BENCHMARKING OF START-UPS/SMES

11.9 COMPETITIVE SCENARIOS AND TRENDS

11.9.1 PRODUCT LAUNCHES

TABLE 453 HTS MARKET: PRODUCT LAUNCHES, JANUARY 2020–MAY 2023

11.9.2 DEALS

TABLE 454 HTS MARKET: DEALS, JANUARY 2020–MAY 2023

11.9.3 OTHER DEVELOPMENTS

TABLE 455 HTS MARKET: OTHER DEVELOPMENTS, JANUARY 2020–MAY 2023

12 COMPANY PROFILES

(Business Overview, Products Offered, Recent Developments, MnM View Right to win, Strategic choices made, Weaknesses and competitive threats) *

12.1 KEY COMPANIES

12.1.1 THERMO FISHER SCIENTIFIC, INC.

TABLE 456 THERMO FISHER SCIENTIFIC, INC.: BUSINESS OVERVIEW

FIGURE 39 THERMO FISHER SCIENTIFIC, INC.: COMPANY SNAPSHOT (2022)

12.1.2 AGILENT TECHNOLOGIES, INC.

TABLE 457 AGILENT TECHNOLOGIES, INC.: BUSINESS OVERVIEW

FIGURE 40 AGILENT TECHNOLOGIES, INC.: COMPANY SNAPSHOT (2022)

12.1.3 MERCK KGAA

TABLE 458 MERCK KGAA: BUSINESS OVERVIEW

FIGURE 41 MERCK KGAA: COMPANY SNAPSHOT (2022)

12.1.4 DANAHER CORPORATION

TABLE 459 DANAHER CORPORATION: BUSINESS OVERVIEW

FIGURE 42 DANAHER CORPORATION: COMPANY SNAPSHOT (2022)

12.1.1 PERKINELMER, INC.

TABLE 460 PERKINELMER, INC.: BUSINESS OVERVIEW

FIGURE 43 PERKINELMER, INC.: COMPANY SNAPSHOT (2022)

12.1.2 TECAN TRADING AG

TABLE 461 TECAN TRADING AG: BUSINESS OVERVIEW

FIGURE 44 TECAN TRADING AG: COMPANY SNAPSHOT (2022)

12.1.3 AXXAM S.P.A

TABLE 462 AXXAM S.P.A: BUSINESS OVERVIEW

12.1.4 BIO-RAD LABORATORIES, INC.

TABLE 463 BIO-RAD LABORATORIES, INC.: BUSINESS OVERVIEW

FIGURE 45 BIO-RAD LABORATORIES, INC.: COMPANY SNAPSHOT (2022)

12.1.5 PROMEGA CORPORATION

TABLE 464 PROMEGA CORPORATION: BUSINESS OVERVIEW

12.1.6 CORNING INCORPORATED

TABLE 465 CORNING INCORPORATED: BUSINESS OVERVIEW

FIGURE 46 CORNING INCORPORATED: COMPANY SNAPSHOT (2022)

12.1.7 CHARLES RIVER LABORATORIES

TABLE 466 CHARLES RIVER LABORATORIES: BUSINESS OVERVIEW

FIGURE 47 CHARLES RIVER LABORATORIES: COMPANY SNAPSHOT (2022)

12.1.8 EUROFINS SCIENTIFIC

TABLE 467 EUROFINS SCIENTIFIC COMPANY: BUSINESS OVERVIEW

FIGURE 48 EUROFINS SCIENTIFIC: COMPANY SNAPSHOT (2022)

12.1.9 HAMILTON COMPANY

TABLE 468 HAMILTON COMPANY: BUSINESS OVERVIEW

12.1.10 LONZA

TABLE 469 LONZA: BUSINESS OVERVIEW

FIGURE 49 LONZA: COMPANY SNAPSHOT (2022)

12.1.11 REPROCELL, INC.

TABLE 470 REPROCELL, INC.: BUSINESS OVERVIEW

12.1.12 AURORA BIOMED

TABLE 471 AURORA BIOMED: BUSINESS OVERVIEW

12.2 OTHER PLAYERS

12.2.1 BMG LABTECH

12.2.2 DIANA BIOTECHNOLOGIES S.R.O.

12.2.3 NANOTEMPER TECHNOLOGIES GMBH

12.2.4 CREATIVE BIOLABS

12.2.5 BIOMAT SRL

12.2.6 HIGHRES BIOSOLUTIONS

12.2.7 CYCLICA, INC.

12.2.8 CROWN BIOSCIENCE

12.2.9 SYGNATURE DISCOVERY

*Details on Business Overview, Products Offered, Recent Developments, MnM View, Right to win, Strategic choices made, Weaknesses and competitive threats might not be captured in case of unlisted companies.

13 APPENDIX

13.1 DISCUSSION GUIDE

13.2 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL

13.3 CUSTOMIZATION OPTIONS

13.4 RELATED REPORTS

13.5 AUTHOR DETAILS

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