

Food Pathogen Safety Testing Equipment and Supplies Market by Type (Systems, Test Kits, and Microbial Culture Media), Site (In-House, Outsourcing Facility, and Government Labs), Food Tested and Region - Global Forecast to 2028

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Abstracts

The global market for food pathogen safety testing equipment and supplies is estimated to be valued at USD 7.4 Billion in 2023 and is projected to reach USD 10.4 Billion by 2028, at a CAGR of 7.1% during the forecast period. The occurrence of foodborne illnesses is mainly attributed to the consumption of food that contains mycotoxins, pathogens, or the proliferation of yeasts and molds. Pathogens like Salmonella, Campylobacter, E. coli, and Listeria are particularly concerning as they can compromise the microbiological safety of food, leading to foodborne illnesses. According to a recent report by the US Center for Disease Control and Prevention in 2020, there was an increase in cases of potentially dangerous foodborne illnesses in 2019 compared to the preceding three years, primarily caused by common bacteria present in the US food supply.

“The systems sub-segment in the by type segment is estimated to be growing at a CAGR of 7.1% for the food pathogen safety testing equipment and supplies market.”

The demand for testing systems used in food pathogen testing equipment is increasing significantly due to a variety of compelling considerations. With the rising frequency of foodborne diseases, governments, and consumers are placing a greater focus on food safety, resulting in an increased need for dependable testing solutions. Stricter food safety requirements enforced by regulatory agencies have made it critical for food firms to implement sophisticated testing methods to ensure compliance with safety standards. The globalization of the food supply chain has raised the potential of contamination

during manufacturing and transit, making testing methods critical for ensuring food safety at various stages. Technological advances in biotechnology and diagnostics have enhanced the accuracy and speed of disease detection, making the systems more acceptable to the food business.

Industry reputation and brand protection are becoming increasingly important, and testing methods provide a proactive way to avoid costly recalls and retain customer trust. The long-term cost-effectiveness of these systems, together with the emphasis on preventative actions, accords with food safety best practices. As the market for convenience and packaged foods grows, strong quality control procedures are required to avoid contamination, encouraging the use of testing technologies to verify product safety prior to distribution and consumption. Overall, the growing demand for these testing systems emphasizes their critical role in ensuring food safety and quality, propelling the food sector towards a more proactive and preventative strategy.

“The In-House sub-segment in the by-site segment is estimated to grow at a CAGR of 6.1% during the forecast period.”

In-house food pathogen safety testing is gaining popularity across industries due to its advantages. It involves conducting pathogen testing within food production facilities, avoiding the need for outsourcing. This approach offers timely results, cost-effectiveness, quality control, regulatory compliance, customization, and confidentiality, making it an effective tool for ensuring food safety in various sectors.

The capacity to get results quickly allows businesses to respond quickly if infections are found, halting the distribution of tainted goods to customers. Additionally, for businesses with high testing frequency or high production quantities, in-house testing turns out to be financially advantageous over time. Direct control over the testing procedure ensures strict quality control standards, adherence to laws governing food safety, and the freedom to adapt testing procedures to product lines and manufacturing procedures. For companies managing private materials or proprietary formulations, in-house testing provides further secrecy. A crucial tool for guaranteeing consumer protection and maintaining the integrity of food products across various sectors, including food manufacturing, restaurants, agriculture, retail, and research institutions, in-house food pathogen safety testing is becoming more and more in demand as the food industry places an increased emphasis on food safety and quality assurance.

“Asia Pacific to grow at a significant CAGR during the forecast period, in food, pathogen safety testing equipment and supplies market to reach a value of USD 2.7 billion by

2028.”

In the Asia Pacific region, food pathogen safety testing equipment and supplies have become essential tools to ensure the safety and quality of food products. The rising instances of foodborne illnesses and increased consumer awareness about food safety have created a higher demand for dependable testing equipment and supplies. Governments in the region are enforcing stricter regulations to protect public health, further fuelling the need for robust testing solutions. Advancements in technology have led to the development of more precise and efficient testing equipment, making it more accessible to businesses. As the food industry expands and globalizes in the region, the risk of contamination during production, processing, and distribution grows, necessitating regular and comprehensive pathogen testing. Businesses across various sectors, such as food manufacturing, agriculture, food service, and retail, are adopting these testing solutions to comply with regulations and prioritize consumer safety. With an increasing focus on food safety, the demand for advanced and reliable food pathogen safety testing equipment and supplies is projected to continue its upward trend in the Asia Pacific.

The break-up of the profile of primary participants in the food pathogen testing market:

By Company: Tier 1 – 50%, Tier 2 - 40%, Tier 3 – 10%

By Designation: Manager level – 60%, and C-Level- 40%

By Region: North America -9%, Asia Pacific – 18%, Europe – 73%

Major key players operating in the food pathogen safety testing equipment and supplies market include Thermo Fisher Scientific Inc. (US), Bio-Rad Laboratories, Inc. (US), Merck KGaA (Germany), Neogen Corporation (US), BIOM?RIEUX (France), Agilent Technologies, Inc. (US), QIAGEN (Germany), Shimadzu Corporation (Japan), Bruker (US), and PerkinElmer Inc. (US).

Research Coverage:

This research report categorizes the food pathogen safety testing equipment and supplies market by the site (In-House, Outsourcing Facility, Government Labs), by type (Systems, Test kits, Microbial culture media), by food tested (Meat & Poultry, Fish & Seafood, Dairy, Processed foods, Fruits & Vegetables, Cereals & Grains & other food

tested) and by region (North America, Europe, Asia Pacific, South America, RoW). The scope of this report encompasses a comprehensive examination of major factors, including drivers, restraints, challenges, and opportunities, that significantly influence the growth of the food pathogen safety testing equipment and supplies market. Extensive research has been conducted to analyze key industry players, offering valuable insights into their business overview, product offerings, key strategies, contracts, partnerships, new product launches, as well as mergers and acquisitions associated with the food pathogen safety testing equipment and supplies market. Furthermore, the report includes a competitive analysis of emerging startups in the food pathogen safety testing equipment and supplies market ecosystem.

Reasons to buy this report:

The report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall food pathogen testing market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Analysis of key drivers (Cross-contamination of food products due to complex processes, Stringent food regulations, availability of advanced rapid technology, increase in demand for convenience and packaged food products, rising food recalls due to non-compliant food products, rise in consumer awareness about food safety), restraints (Lack of coordination between market stakeholders and improper enforcement of regulatory laws and supporting infrastructure, Complexity in testing techniques, Varying test results with test methods), opportunities (Technological advancements in testing industry, Spike in food safety concerns after COVID-19), and challenges (Lack of harmonization of food safety standards, High cost associated with procurement of food safety testing equipment) influencing the growth of the food pathogen safety testing equipment and supplies market.

New Product launch/Innovation: Detailed insights on research & development activities and new product launches in the food pathogen safety testing equipment and supplies market.

Market Development: Comprehensive information about lucrative markets – the report analyses the food pathogen safety testing equipment and supplies market across varied regions.

Market Diversification: Exhaustive information about new products, untapped geographies, recent developments, and investments in the food pathogen safety testing equipment and supplies market.

Competitive Assessment: In-depth assessment of market shares, growth strategies, and product offerings of leading players like Thermo Fisher Scientific Inc. (US), Bio-Rad Laboratories, Inc. (US), Merck KGaA (Germany), Neogen Corporation (US), BIOM?RIEUX (France), Agilent Technologies, Inc. (US) and others in the food pathogen safety testing equipment and supplies market strategies.

Contents

1 INTRODUCTION

1.1 STUDY OBJECTIVES

1.2 MARKET DEFINITION

1.3 STUDY SCOPE

1.3.1 MARKET SEGMENTATION

1.3.1 INCLUSIONS AND EXCLUSIONS

1.3.2 REGIONS COVERED

1.4 YEARS CONSIDERED

1.5 UNITS CONSIDERED

1.5.1 CURRENCY UNIT

TABLE 1 USD EXCHANGE RATES, 2019–2022

1.5.2 VOLUME UNIT

1.6 STAKEHOLDERS

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 1 RESEARCH DESIGN

2.1.1 SECONDARY DATA

2.1.1.1 Key data from secondary sources

2.1.2 PRIMARY DATA

2.1.2.1 Key data from primary sources

2.1.2.2 Breakdown of primaries

2.1.2.3 Key primary insights

2.2 MARKET SIZE ESTIMATION

2.2.1 APPROACH ONE: BOTTOM-UP (BASED ON TYPES OF FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES, BY REGION)

2.2.2 APPROACH TWO: TOP-DOWN (BASED ON GLOBAL MARKET)

2.2.3 SUPPLY-SIDE ANALYSIS

FIGURE 2 SUPPLY-SIDE ANALYSIS

2.2.4 DEMAND-SIDE ANALYSIS

2.3 DATA TRIANGULATION

FIGURE 3 DATA TRIANGULATION METHODOLOGY

2.4 RECESSION IMPACT ANALYSIS

2.5 RESEARCH ASSUMPTIONS

2.6 LIMITATIONS AND RISK ASSESSMENT

3 EXECUTIVE SUMMARY

TABLE 2 FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES
MARKET SNAPSHOT, 2023 VS. 2028

FIGURE 4 FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES
MARKET, BY FOOD TESTED, 2023 VS. 2028 (USD MILLION)

FIGURE 5 FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES
MARKET, BY SITE, 2023 VS. 2028 (USD MILLION)

FIGURE 6 FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES
MARKET, BY TYPE, 2023 VS. 2028 (USD MILLION)

FIGURE 7 FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES
MARKET, BY REGION, 2022

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN FOOD PATHOGEN SAFETY
TESTING EQUIPMENT AND SUPPLIES MARKET

FIGURE 8 RISING HEALTH AWARENESS TO DRIVE FOOD PATHOGEN SAFETY
TESTING EQUIPMENT AND SUPPLIES MARKET

4.2 EUROPE: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES
MARKET, BY SITE AND KEY COUNTRY

FIGURE 9 OUTSOURCING FACILITIES SEGMENT AND GERMANY ACCOUNTED
FOR SIGNIFICANT SHARE IN 2022

4.3 FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET,
BY FOOD TESTED

FIGURE 10 MEAT & POULTRY SEGMENT TO DOMINATE MARKET DURING
FORECAST PERIOD

4.4 FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET,
BY SITE

FIGURE 11 OUTSOURCING FACILITIES SEGMENT TO LEAD MARKET BY 2028

4.5 FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET,
BY FOOD TESTED AND REGION

FIGURE 12 MEAT & POULTRY SEGMENT AND EUROPE TO ACCOUNT FOR
SIGNIFICANT SHARE DURING FORECAST PERIOD

4.6 FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET:
MAJOR REGIONAL SUBMARKETS

FIGURE 13 US TO ACCOUNT FOR LARGEST SHARE IN 2023

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MACROECONOMIC INDICATORS

5.2.1 GLOBALIZATION OF FOOD TRADE

FIGURE 14 CHANGE IN EXPORT VALUE, BY PRODUCT {AVERAGE BASE PERIOD (2000–2002) VS. AVERAGE CURRENT PERIOD (2019–2021)}

5.2.2 RISING HEALTH AWARENESS

5.3 MARKET DYNAMICS

FIGURE 15 FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

5.3.1 DRIVERS

5.3.1.1 Growing emphasis on food quality and protecting brand reputation

5.3.1.2 Introduction of stringent food safety regulations and standards

5.3.1.3 Rise in foodborne illnesses

TABLE 3 FOODBORNE OUTBREAKS IN US, 2021–2023

5.3.2 RESTRAINTS

5.3.2.1 High equipment cost

5.3.2.2 Risk of contamination during food testing procedures

5.3.3 OPPORTUNITIES

5.3.3.1 Growing demand for food testing in emerging markets

5.3.3.2 Integration of advanced technologies

5.3.3.3 Increasing focus on importance of food safety

5.3.4 CHALLENGES

5.3.4.1 Rapidly evolving pathogen strains

5.3.4.2 Complex testing methods

5.3.4.3 Standardization of testing protocols

6 INDUSTRY TRENDS

6.1 INTRODUCTION

6.2 TARIFF AND REGULATORY LANDSCAPE

6.2.1 REGULATORY FRAMEWORK

6.2.1.1 Global Food Safety Initiative (GFSI)

6.2.1.2 North America

6.2.1.2.1 US

6.2.1.2.1.1 Federal Legislation

6.2.1.2.1.2 State Legislation

6.2.1.2.1.3 Food Safety in Retail Food

- 6.2.1.2.1.4 Food Safety in Trade
- 6.2.1.2.1.5 HACCP Regulation
- 6.2.1.2.1.6 US Regulation for Foodborne Pathogens in Poultry
- 6.2.1.2.1.7 Food Safety Regulation for Fruit and Vegetable Growers

6.2.1.2.2 Canada

6.2.1.2.3 Mexico

6.2.1.3 Europe

6.2.1.3.1 European Union

FIGURE 16 LEGISLATION PROCESS IN EU

6.2.1.3.1.1 Microbiological Criteria Regulation

6.2.1.3.2 Germany

6.2.1.3.3 UK

6.2.1.3.4 France

6.2.1.3.5 Italy

6.2.1.3.6 Poland

6.2.1.4 Asia Pacific

6.2.1.4.1 China

6.2.1.4.2 Japan

6.2.1.4.3 India

6.2.1.4.3.1 Food Safety Standards Amendment Regulation, 2012

6.2.1.4.3.2 Food Safety Standards Amendment Regulation, 2011

6.2.1.4.3.3 Food Safety and Standards Act, 2006

6.2.1.4.4 Australia and New Zealand

6.2.1.4.4.1 Food Standards Australia and New Zealand

6.2.1.5 South America

6.2.1.5.1 Brazil

6.2.1.5.1.1 Ministry of Agriculture, Livestock, and Food Supply (MAPA)

6.2.1.5.1.2 Ministry of Health (MS)

6.2.1.5.2 Argentina

6.2.1.6 Rest of the World

6.2.1.6.1 South Africa

6.2.1.6.1.1 International vs. Local Standards & Legislation

6.2.1.6.1.2 Private Standards in South Africa and Requirements for Product

Testing

6.2.2 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 4 NORTH AMERICA: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 5 EUROPE: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES,

AND OTHER ORGANIZATIONS

TABLE 6 ASIA PACIFIC: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 7 SOUTH AMERICA: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

6.3 PATENT ANALYSIS

TABLE 8 MAJOR PATENTS GRANTED, 2013–2022

FIGURE 17 MAJOR PATENTS GRANTED, 2012–2021

FIGURE 18 REGIONAL ANALYSIS OF MAJOR PATENTS GRANTED

6.4 TRADE ANALYSIS

FIGURE 19 IMPORT VALUE OF PREPARED CULTURE MEDIA, 2019–2022 (USD THOUSAND)

TABLE 9 IMPORT VALUE OF PREPARED CULTURE MEDIA, 2022 (USD THOUSAND)

FIGURE 20 EXPORT VALUE OF PREPARED CULTURE MEDIA, 2019–2022 (USD THOUSAND)

TABLE 10 EXPORT VALUE OF PREPARED CULTURE MEDIA, 2022 (USD THOUSAND)

6.5 AVERAGE SELLING PRICE ANALYSIS

TABLE 11 INDICATIVE PRICE ANALYSIS, BY TYPE, 2022

6.6 VALUE CHAIN ANALYSIS

FIGURE 21 VALUE CHAIN ANALYSIS

6.6.1 RESEARCH AND PRODUCT DEVELOPMENT

6.6.2 RAW MATERIAL SOURCING

6.6.3 MANUFACTURING AND ASSEMBLY

6.6.4 LOGISTICS AND DISTRIBUTION

6.6.5 MARKETING AND SALES

6.6.6 REGULATORY BODIES AND STANDARDS ORGANIZATIONS

6.6.7 END USERS

6.7 SUPPLY CHAIN ANALYSIS

FIGURE 22 SUPPLY CHAIN ANALYSIS

6.8 TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES

FIGURE 23 REVENUE SHIFT FOR FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET

6.9 ECOSYSTEM ANALYSIS

FIGURE 24 ECOSYSTEM MAP

TABLE 12 ROLE OF PLAYERS IN MARKET ECOSYSTEM

6.10 CASE STUDY ANALYSIS

6.10.1 BCN RESEARCH LABORATORIES PARTNERED WITH BIOM?RIEUX TO

INTRODUCE GENE-UP SYSTEMS FOR FOOD SAFETY TESTING

6.10.2 EUROFINS COLLABORATED WITH RHEONIX TO INTRODUCE RHEONIX LISTERIA PATTERNALERT ASSAY

6.11 PORTER'S FIVE FORCES ANALYSIS

TABLE 13 PORTER'S FIVE FORCES ANALYSIS

6.11.1 INTENSITY OF COMPETITIVE RIVALRY

6.11.2 BARGAINING POWER OF SUPPLIERS

6.11.3 BARGAINING POWER OF BUYERS

6.11.4 THREAT OF SUBSTITUTES

6.11.5 THREAT OF NEW ENTRANTS

6.12 TECHNOLOGY ANALYSIS

6.12.1 BIOSENSORS

6.12.2 NANOSENSORS

6.12.3 LANTHANIDE-BASED ASSAYS

6.12.4 LECTIN-BASED BIOSENSOR TECHNOLOGY

6.12.5 MICROARRAYS

6.13 KEY STAKEHOLDERS AND BUYING CRITERIA

6.13.1 KEY STAKEHOLDERS IN BUYING PROCESS

FIGURE 25 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR KEY SAFETY TESTING EQUIPMENT TYPES

TABLE 14 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR KEY SAFETY TESTING EQUIPMENT TYPES

6.13.2 BUYING CRITERIA

TABLE 15 KEY CRITERIA FOR SELECTING SUPPLIERS/VENDORS

FIGURE 26 KEY CRITERIA FOR SELECTING SUPPLIERS/VENDORS

6.14 KEY CONFERENCES AND EVENTS, 2023–2024

TABLE 16 KEY CONFERENCES AND EVENTS, 2023–2024

7 FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY TYPE

7.1 INTRODUCTION

FIGURE 27 FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY TYPE, 2023 VS. 2028 (USD MILLION)

TABLE 17 FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY TYPE, 2018–2022 (USD MILLION)

TABLE 18 FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY TYPE, 2023–2028 (USD MILLION)

7.2 SYSTEMS

TABLE 19 SYSTEMS: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY SUBTYPE, 2018–2022 (USD MILLION)

TABLE 20 SYSTEMS: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY SUBTYPE, 2023–2028 (USD MILLION)

TABLE 21 SYSTEMS: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 22 SYSTEMS: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY REGION, 2023–2028 (USD MILLION)

7.2.1 HYBRIDIZATION-BASED

7.2.1.1 Need for high analytical precision in food testing to drive adoption of hybridization-based systems

7.2.1.2 Polymerase chain reaction (PCR)

TABLE 23 GENE TARGETS USED FOR FOOD PATHOGENS IN DEVELOPED PCR TESTS

7.2.1.3 Gene amplifiers

7.2.2 CHROMATOGRAPHY-BASED

7.2.2.1 Focus on detecting chemical contaminants in food to encourage use of chromatography-based techniques

7.2.2.2 High-performance liquid chromatography (HPLC)

7.2.2.3 Liquid chromatography

7.2.2.4 Gas chromatography

7.2.2.5 Other chromatography-based systems

7.2.3 SPECTROMETRY-BASED

7.2.3.1 Growing demand to gain analytical approach to food pathogen testing to drive market

7.2.4 IMMUNOASSAY-BASED

7.2.4.1 Focus on building ability to test multiple samples to drive use of immunoassay-based systems

7.3 TEST KITS

7.3.1 NEED FOR USER-FRIENDLY AND EFFICIENT FOOD TESTING SOLUTIONS TO BOOST GROWTH

TABLE 24 TEST KITS: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 25 TEST KITS: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY REGION, 2023–2028 (USD MILLION)

7.4 MICROBIAL CULTURE MEDIA

7.4.1 GROWING DEMAND FOR ADVANCED TECHNOLOGIES TO DRIVE ADOPTION OF FOOD SAFETY TESTING SOLUTIONS

TABLE 26 MICROBIAL CULTURE MEDIA: FOOD PATHOGEN SAFETY TESTING

EQUIPMENT AND SUPPLIES MARKET, BY REGION, 2018–2022 (USD MILLION)
TABLE 27 MICROBIAL CULTURE MEDIA: FOOD PATHOGEN SAFETY TESTING
EQUIPMENT AND SUPPLIES MARKET, BY REGION, 2023–2028 (USD MILLION)

8 FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED

8.1 INTRODUCTION

TABLE 28 FOODBORNE PATHOGENS, BY FOOD SOURCE
FIGURE 28 FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES
MARKET, BY FOOD TESTED, 2023 VS. 2028 (USD MILLION)
TABLE 29 FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES
MARKET, BY FOOD TESTED, 2018–2022 (USD MILLION)
TABLE 30 FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES
MARKET, BY FOOD TESTED, 2023–2028 (USD MILLION)

8.2 MEAT & POULTRY

8.2.1 RISING GLOBAL MEAT AND POULTRY CONSUMPTION TO SPUR DEMAND
TABLE 31 MEAT & POULTRY: FOOD PATHOGEN SAFETY TESTING EQUIPMENT
AND SUPPLIES MARKET, BY REGION, 2018–2022 (USD MILLION)
TABLE 32 MEAT & POULTRY: FOOD PATHOGEN SAFETY TESTING EQUIPMENT
AND SUPPLIES MARKET, BY REGION, 2023–2028 (USD MILLION)

8.3 FISH & SEAFOOD

8.3.1 GROWING RISK OF CONTAMINATION OF FISH AND SEAFOOD DUE TO
SUPPLY CHAIN COMPLEXITIES TO DRIVE MARKET
TABLE 33 FISH & SEAFOOD: FOOD PATHOGEN SAFETY TESTING EQUIPMENT
AND SUPPLIES MARKET, BY REGION, 2018–2022 (USD MILLION)
TABLE 34 FISH & SEAFOOD: FOOD PATHOGEN SAFETY TESTING EQUIPMENT
AND SUPPLIES MARKET, BY REGION, 2023–2028 (USD MILLION)

8.4 DAIRY PRODUCTS

8.4.1 MOUNTING CASES OF LISTERIOSIS AND OTHER PATHOGEN-RELATED
ILLNESSES IN DAIRY PRODUCTS TO STIMULATE MARKET DEMAND
TABLE 35 DAIRY PRODUCTS: FOOD PATHOGEN SAFETY TESTING EQUIPMENT
AND SUPPLIES MARKET, BY REGION, 2018–2022 (USD MILLION)
TABLE 36 DAIRY PRODUCTS: FOOD PATHOGEN SAFETY TESTING EQUIPMENT
AND SUPPLIES MARKET, BY REGION, 2023–2028 (USD MILLION)

8.5 PROCESSED FOOD

8.5.1 PROCESSED FOODS' SUSCEPTIBILITY TO PATHOGEN CONTAMINATION
TO DRIVE DEMAND FOR SAFETY TESTING EQUIPMENT
TABLE 37 PROCESSED FOOD: FOOD PATHOGEN SAFETY TESTING EQUIPMENT

AND SUPPLIES MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 38 PROCESSED FOOD: FOOD PATHOGEN SAFETY TESTING EQUIPMENT
AND SUPPLIES MARKET, BY REGION, 2023–2028 (USD MILLION)

8.6 FRUITS & VEGETABLES

8.6.1 MULTIPLE OUTBREAKS ASSOCIATED WITH PATHOGENS IN FRUITS AND
VEGETABLES TO FUEL MARKET GROWTH

TABLE 39 FRUITS & VEGETABLES: FOOD PATHOGEN SAFETY TESTING
EQUIPMENT AND SUPPLIES MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 40 FRUITS & VEGETABLES: FOOD PATHOGEN SAFETY TESTING
EQUIPMENT AND SUPPLIES MARKET, BY REGION, 2023–2028 (USD MILLION)

8.7 CEREALS & GRAINS

8.7.1 GROWING RISK OF CROSS-CONTAMINATION DUE TO WIDE APPLICATION
OF CEREALS AND GRAINS IN FOOD INDUSTRY TO BOOST MARKET

TABLE 41 CEREALS & GRAINS: FOOD PATHOGEN SAFETY TESTING EQUIPMENT
AND SUPPLIES MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 42 CEREALS & GRAINS: FOOD PATHOGEN SAFETY TESTING EQUIPMENT
AND SUPPLIES MARKET, BY REGION, 2023–2028 (USD MILLION)

8.8 OTHER FOOD PRODUCTS

TABLE 43 OTHER FOOD PRODUCTS: FOOD PATHOGEN SAFETY TESTING
EQUIPMENT AND SUPPLIES MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 44 OTHER FOOD PRODUCTS: FOOD PATHOGEN SAFETY TESTING
EQUIPMENT AND SUPPLIES MARKET, BY REGION, 2023–2028 (USD MILLION)

9 FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY SITE

9.1 INTRODUCTION

FIGURE 29 FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES
MARKET, BY SITE, 2023 VS. 2028 (USD MILLION)

TABLE 45 FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES
MARKET, BY SITE, 2018–2022 (USD MILLION)

TABLE 46 FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES
MARKET, BY SITE, 2023–2028 (USD MILLION)

9.2 IN-HOUSE LABORATORIES (FACTORY LABS)

9.2.1 NEED TO MAINTAIN BRAND REPUTATION AND CONSUMER TRUST TO
DRIVE USE OF IN-HOUSE LABORATORIES

TABLE 47 IN-HOUSE LABORATORIES: FOOD PATHOGEN SAFETY TESTING
EQUIPMENT AND SUPPLIES MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 48 IN-HOUSE LABORATORIES: FOOD PATHOGEN SAFETY TESTING

EQUIPMENT AND SUPPLIES MARKET, BY REGION, 2023–2028 (USD MILLION)

9.3 OUTSOURCING FACILITIES (SERVICE LABS)

9.3.1 NEED TO ACCESS SPECIALIZED EXPERTISE AND ADVANCED TECHNOLOGIES TO DRIVE DEMAND FOR OUTSOURCING LABORATORIES

TABLE 49 OUTSOURCING FACILITIES: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 50 OUTSOURCING FACILITIES: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY REGION, 2023–2028 (USD MILLION)

9.4 GOVERNMENT LABS

9.4.1 INDEPENDENT AND IMPARTIAL TESTING PROVIDED BY GOVERNMENT LABS TO FUEL MARKET GROWTH

TABLE 51 GOVERNMENT LABS: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 52 GOVERNMENT LABS: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY REGION, 2023–2028 (USD MILLION)

10 FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY REGION

10.1 INTRODUCTION

FIGURE 30 FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET: GEOGRAPHIC SNAPSHOT

TABLE 53 FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 54 FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY REGION, 2023–2028 (USD MILLION)

10.2 RECESSION MACROINDICATORS

FIGURE 31 RECESSION MACROINDICATORS

FIGURE 32 GLOBAL INFLATION RATE, 2011–2022

FIGURE 33 GLOBAL GDP, 2011–2022 (USD TRILLION)

FIGURE 34 RECESSION INDICATORS AND THEIR IMPACT ON FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET

FIGURE 35 GLOBAL FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET: EARLIER FORECAST VS. RECESSION FORECAST

10.3 NORTH AMERICA

10.3.1 NORTH AMERICA: RECESSION IMPACT ANALYSIS

FIGURE 36 NORTH AMERICA: INFLATION RATES, BY KEY COUNTRY, 2018–2022

FIGURE 37 NORTH AMERICA: RECESSION IMPACT ANALYSIS, 2022 VS. 2023

TABLE 55 NORTH AMERICA: FOOD PATHOGEN SAFETY TESTING EQUIPMENT

AND SUPPLIES MARKET, BY SITE, 2018–2022 (USD MILLION)

TABLE 56 NORTH AMERICA: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY SITE, 2023–2028 (USD MILLION)

TABLE 57 NORTH AMERICA: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY TYPE, 2018–2022 (USD MILLION)

TABLE 58 NORTH AMERICA: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY TYPE, 2023–2028 (USD MILLION)

TABLE 59 NORTH AMERICA: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2018–2022 (USD MILLION)

TABLE 60 NORTH AMERICA: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2023–2028 (USD MILLION)

TABLE 61 NORTH AMERICA: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY COUNTRY, 2018–2022 (USD MILLION)

TABLE 62 NORTH AMERICA: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

10.3.2 US

10.3.2.1 Stringent food safety regulations to stimulate market

TABLE 63 US: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2018–2022 (USD MILLION)

TABLE 64 US: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2023–2028 (USD MILLION)

10.3.3 CANADA

10.3.3.1 Government initiatives aimed at reducing pathogens in meat and poultry to boost growth

TABLE 65 CANADA: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2018–2022 (USD MILLION)

TABLE 66 CANADA: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2023–2028 (USD MILLION)

10.3.4 MEXICO

10.3.4.1 Growing food exports to US and need for stringent safety measures to boost market

TABLE 67 MEXICO: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2018–2022 (USD MILLION)

TABLE 68 MEXICO: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2023–2028 (USD MILLION)

10.4 EUROPE

FIGURE 38 EUROPEAN FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET SNAPSHOT

10.4.1 EUROPE: RECESSION IMPACT ANALYSIS

FIGURE 39 EUROPE: INFLATION RATES, BY KEY COUNTRY, 2017–2022

FIGURE 40 EUROPE: RECESSION IMPACT ANALYSIS, 2022 VS. 2023

TABLE 69 EUROPE: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY SITE, 2018–2022 (USD MILLION)

TABLE 70 EUROPE: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY SITE, 2023–2028 (USD MILLION)

TABLE 71 EUROPE: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY TYPE, 2018–2022 (USD MILLION)

TABLE 72 EUROPE: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY TYPE, 2023–2028 (USD MILLION)

TABLE 73 EUROPE: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2018–2022 (USD MILLION)

TABLE 74 EUROPE: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2023–2028 (USD MILLION)

TABLE 75 EUROPE: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY COUNTRY, 2018–2022 (USD MILLION)

TABLE 76 EUROPE: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

10.4.2 GERMANY

10.4.2.1 Rising concerns over foodborne illnesses to drive market

TABLE 77 GERMANY: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2018–2022 (USD MILLION)

TABLE 78 GERMANY: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2023–2028 (USD MILLION)

10.4.3 FRANCE

10.4.3.1 Prevalence of multiple product recalls in country to stimulate growth

TABLE 79 FRANCE: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2018–2022 (USD MILLION)

TABLE 80 FRANCE: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2023–2028 (USD MILLION)

10.4.4 UK

10.4.4.1 Government funding and support initiatives for tracking foodborne pathogens to propel market

TABLE 81 UK: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2018–2022 (USD MILLION)

TABLE 82 UK: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2023–2028 (USD MILLION)

10.4.5 ITALY

10.4.5.1 Thriving tourism and hospitality industry to boost growth

TABLE 83 ITALY: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2018–2022 (USD MILLION)

TABLE 84 ITALY: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2023–2028 (USD MILLION)

10.4.6 SPAIN

10.4.6.1 Ongoing struggle with listeriosis and other foodborne illnesses to spur growth

TABLE 85 SPAIN: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2018–2022 (USD MILLION)

TABLE 86 SPAIN: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2023–2028 (USD MILLION)

10.4.7 POLAND

10.4.7.1 Growing dairy industry and exports to Ukraine to drive growth

TABLE 87 POLAND: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2018–2022 (USD MILLION)

TABLE 88 POLAND: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2023–2028 (USD MILLION)

10.4.8 REST OF EUROPE

TABLE 89 REST OF EUROPE: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2018–2022 (USD MILLION)

TABLE 90 REST OF EUROPE: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2023–2028 (USD MILLION)

10.5 ASIA PACIFIC

FIGURE 41 ASIA PACIFIC FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET SNAPSHOT

10.5.1 ASIA PACIFIC: RECESSION IMPACT ANALYSIS

FIGURE 42 ASIA PACIFIC: INFLATION RATES, BY KEY COUNTRY, 2017–2022

FIGURE 43 ASIA PACIFIC: RECESSION IMPACT ANALYSIS, 2022 VS. 2023

TABLE 91 ASIA PACIFIC: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY SITE, 2018–2022 (USD MILLION)

TABLE 92 ASIA PACIFIC: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY SITE, 2023–2028 (USD MILLION)

TABLE 93 ASIA PACIFIC: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY TYPE, 2018–2022 (USD MILLION)

TABLE 94 ASIA PACIFIC: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY TYPE, 2023–2028 (USD MILLION)

TABLE 95 ASIA PACIFIC: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2018–2022 (USD MILLION)

TABLE 96 ASIA PACIFIC: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND

SUPPLIES MARKET, BY FOOD TESTED, 2023–2028 (USD MILLION)

TABLE 97 ASIA PACIFIC: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY COUNTRY, 2018–2022 (USD MILLION)

TABLE 98 ASIA PACIFIC: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

10.5.2 CHINA

10.5.2.1 Government regulations and certifications for food safety to propel market

TABLE 99 CHINA: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2018–2022 (USD MILLION)

TABLE 100 CHINA: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2023–2028 (USD MILLION)

10.5.3 JAPAN

10.5.3.1 Rising incidences of food poisoning and increased food safety tests to drive market

TABLE 101 JAPAN: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2018–2022 (USD MILLION)

TABLE 102 JAPAN: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2023–2028 (USD MILLION)

10.5.4 INDIA

10.5.4.1 Growing food processing market to boost demand for food pathogen testing equipment

TABLE 103 INDIA: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2018–2022 (USD MILLION)

TABLE 104 INDIA: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2023–2028 (USD MILLION)

10.5.5 AUSTRALIA & NEW ZEALAND

10.5.5.1 Fear of outbreaks of Salmonella and E. coli to boost demand for food pathogen testing equipment

TABLE 105 AUSTRALIA & NEW ZEALAND: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2018–2022 (USD MILLION)

TABLE 106 AUSTRALIA & NEW ZEALAND: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2023–2028 (USD MILLION)

10.5.6 SOUTHEAST ASIA

10.5.6.1 Increasing awareness regarding safety and quality of food to encourage adoption of food pathogen testing equipment

TABLE 107 SOUTHEAST ASIA: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2018–2022 (USD MILLION)

TABLE 108 SOUTHEAST ASIA: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2023–2028 (USD MILLION)

10.5.7 REST OF ASIA PACIFIC

TABLE 109 REST OF ASIA PACIFIC: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2018–2022 (USD MILLION)

TABLE 110 REST OF ASIA PACIFIC: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2023–2028 (USD MILLION)

10.6 SOUTH AMERICA

10.6.1 SOUTH AMERICA: RECESSION IMPACT ANALYSIS

FIGURE 44 SOUTH AMERICA: INFLATION RATES, BY KEY COUNTRY, 2017–2022

FIGURE 45 SOUTH AMERICA: RECESSION IMPACT ANALYSIS, 2022 VS. 2023

TABLE 111 SOUTH AMERICA: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY SITE, 2018–2022 (USD MILLION)

TABLE 112 SOUTH AMERICA: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY SITE, 2023–2028 (USD MILLION)

TABLE 113 SOUTH AMERICA: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY TYPE, 2018–2022 (USD MILLION)

TABLE 114 SOUTH AMERICA: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY TYPE, 2023–2028 (USD MILLION)

TABLE 115 SOUTH AMERICA: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2018–2022 (USD MILLION)

TABLE 116 SOUTH AMERICA: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2023–2028 (USD MILLION)

TABLE 117 SOUTH AMERICA: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY COUNTRY, 2018–2022 (USD MILLION)

TABLE 118 SOUTH AMERICA: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

10.6.2 BRAZIL

10.6.2.1 Booming food processing industry to spur market

TABLE 119 BRAZIL: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2018–2022 (USD MILLION)

TABLE 120 BRAZIL: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2023–2028 (USD MILLION)

10.6.3 ARGENTINA

10.6.3.1 Awareness among consumers regarding mounting cases of foodborne illnesses to contribute to market growth

TABLE 121 ARGENTINA: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND

SUPPLIES MARKET, BY FOOD TESTED, 2018–2022 (USD MILLION)

TABLE 122 ARGENTINA: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2023–2028 (USD MILLION)

10.6.4 REST OF SOUTH AMERICA

TABLE 123 REST OF SOUTH AMERICA: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2018–2022 (USD MILLION)

TABLE 124 REST OF SOUTH AMERICA: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2023–2028 (USD MILLION)

10.7 REST OF THE WORLD

10.7.1 ROW: RECESSION IMPACT ANALYSIS

FIGURE 46 ROW: INFLATION RATES, BY KEY COUNTRY, 2017–2022

FIGURE 47 ROW: RECESSION IMPACT ANALYSIS, 2022 VS. 2023

TABLE 125 ROW: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY SITE, 2018–2022 (USD MILLION)

TABLE 126 ROW: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY SITE, 2023–2028 (USD MILLION)

TABLE 127 ROW: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY TYPE, 2018–2022 (USD MILLION)

TABLE 128 ROW: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY TYPE, 2023–2028 (USD MILLION)

TABLE 129 ROW: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2018–2022 (USD MILLION)

TABLE 130 ROW: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2023–2028 (USD MILLION)

TABLE 131 ROW: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 132 ROW: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY REGION, 2023–2028 (USD MILLION)

10.7.2 MIDDLE EAST

10.7.2.1 Heavy reliance on imported foods to drive demand for food pathogen safety testing equipment

TABLE 133 MIDDLE EAST: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2018–2022 (USD MILLION)

TABLE 134 MIDDLE EAST: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2023–2028 (USD MILLION)

10.7.3 AFRICA

10.7.3.1 Increasing international collaborations dedicated to elevating food safety

standards to drive demand

TABLE 135 AFRICA: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2018–2022 (USD MILLION)

TABLE 136 AFRICA: FOOD PATHOGEN SAFETY TESTING EQUIPMENT AND SUPPLIES MARKET, BY FOOD TESTED, 2023–2028 (USD MILLION)

11 COMPETITIVE LANDSCAPE

11.1 OVERVIEW

11.2 MARKET SHARE ANALYSIS, 2022

TABLE 137 INTENSITY OF COMPETITIVE RIVALRY, 2022

11.3 REVENUE ANALYSIS FOR KEY PLAYERS

FIGURE 48 REVENUE ANALYSIS FOR KEY PLAYERS, 2018–2022 (USD BILLION)

11.4 ANNUAL REVENUE VS. GROWTH (KEY PLAYERS)

FIGURE 49 ANNUAL REVENUE, 2022 (USD BILLION) VS. REVENUE GROWTH, 2020–2022

11.5 EBITDA ANALYSIS FOR KEY PLAYERS, BY KEY REGION

FIGURE 50 EBITDA ANALYSIS FOR KEY PLAYERS, BY KEY REGION, 2022 (USD BILLION)

11.6 STRATEGIES ADOPTED BY KEY PLAYERS

TARGET, BY SERVICE, 2023–2028 (USD MILLION)

10 COMPETITIVE LANDSCAPE

10.1 INTRODUCTION

10.2 KEY PLAYER STRATEGIES/KEY STRENGTHS/RIGHT TO WIN

FIGURE 40 OVERVIEW OF STRATEGIES ADOPTED BY KEY VENDORS

10.3 MARKET SHARE ANALYSIS

TABLE 216 MARKET SHARE OF KEY VENDORS IN 2022

FIGURE 41 HYPERSCALE COMPUTING MARKET: MARKET SHARE ANALYSIS

10.4 HISTORICAL REVENUE ANALYSIS OF TOP VENDORS

FIGURE 42 HISTORICAL REVENUE ANALYSIS, 2018–2022 (USD MILLION)

10.5 COMPANY EVALUATION MATRIX, 2022

FIGURE 43 COMPANY EVALUATION MATRIX FOR KEY PLAYERS: CRITERIA WEIGHTAGE

10.5.1 STARS

10.5.2 EMERGING LEADERS

10.5.3 PERVASIVE PLAYERS

10.5.4 PARTICIPANTS

FIGURE 44 COMPANY EVALUATION MATRIX FOR KEY PLAYERS, 2022

TABLE 217 OVERALL COMPANY FOOTPRINT FOR KEY PLAYERS

10.6 COMPANY EVALUATION MATRIX FOR STARTUPS/SMES, 2022

FIGURE 45 EVALUATION MATRIX FOR STARTUPS/SMES: CRITERIA WEIGHTAGE

10.6.1 RESPONSIVE COMPANIES

10.6.2 PROGRESSIVE COMPANIES

10.6.3 DYNAMIC COMPANIES

10.6.4 STARTING BLOCKS

FIGURE 46 COMPANY EVALUATION MATRIX FOR STARTUPS/SMES, 2022

TABLE 218 OVERALL COMPANY FOOTPRINT FOR STARTUPS/SMES

10.6.5 COMPETITIVE BENCHMARKING OF STARTUPS/SMES

TABLE 219 KEY STARTUPS/SMES

10.7 COMPANY FINANCIAL METRICS

FIGURE 47 COMPANY FINANCIAL METRICS, 2022

10.8 GLOBAL SNAPSHOT OF KEY MARKET PARTICIPANTS

FIGURE 48 HYPERSCALE COMPUTING MARKET: GLOBAL SNAPSHOT OF KEY MARKET PARTICIPANTS, 2022

10.9 KEY MARKET DEVELOPMENTS

TABLE 220 HYPERSCALE COMPUTING MARKET: PRODUCT LAUNCHES/ENHANCEMENTS, 2020-2023

TABLE 221 HYPERSCALE COMPUTING MARKET: DEALS, 2020–2023

11 COMPANY PROFILES

11.1 INTRODUCTION

11.2 MAJOR PLAYERS

11.2.1 AWS

TABLE 222 AWS: BUSINESS OVERVIEW

11.2.1.1 Business overview

FIGURE 49 AWS: COMPANY SNAPSHOT

11.2.1.2 Products/Services offered

TABLE 223 AWS: PRODUCTS/SERVICES OFFERED

11.2.1.3 Recent developments

TABLE 224 AWS: PRODUCT LAUNCHES/ENHANCEMENTS

TABLE 225 AWS: DEALS

11.2.1.4 MnM view

11.2.1.4.1 Key strengths/Right to win

11.2.1.4.2 Strategic choices made

11.2.1.4.3 Weaknesses and competitive threats

11.2.2 GOOGLE

TABLE 226 GOOGLE: BUSINESS OVERVIEW

11.2.2.1 Business overview

FIGURE 50 GOOGLE: COMPANY SNAPSHOT

11.2.2.2 Products/Services offered

TABLE 227 GOOGLE: PRODUCTS/SERVICES OFFERED

11.2.2.3 Recent developments

TABLE 228 GOOGLE: PRODUCT LAUNCHES/ENHANCEMENTS

TABLE 229 GOOGLE: DEALS

11.2.2.4 MnM view

11.2.2.4.1 Key strengths/Right to win

11.2.2.4.2 Strategic choices made

11.2.2.4.3 Weaknesses and competitive threats

11.2.3 MICROSOFT CORPORATION

TABLE 230 MICROSOFT CORPORATION: BUSINESS OVERVIEW

11.2.3.1 Business overview

FIGURE 51 MICROSOFT CORPORATION: COMPANY SNAPSHOT

11.2.3.2 Products/Services offered

TABLE 231 MICROSOFT CORPORATION: PRODUCTS/SERVICES OFFERED

11.2.3.3 Recent developments

TABLE 232 MICROSOFT CORPORATION: PRODUCT LAUNCHES/ENHANCEMENTS

TABLE 233 MICROSOFT CORPORATION: DEALS

11.2.3.4 MnM view

11.2.3.4.1 Key strengths/Right to win

11.2.3.4.2 Strategic choices made

11.2.3.4.3 Weaknesses and competitive threats

11.2.4 IBM CORPORATION

TABLE 234 IBM CORPORATION: BUSINESS OVERVIEW

11.2.4.1 Business overview

FIGURE 52 IBM CORPORATION: COMPANY SNAPSHOT

11.2.4.2 Products/Services offered

TABLE 235 IBM CORPORATION: PRODUCTS/SERVICES OFFERED

11.2.4.3 Recent developments

TABLE 236 IBM CORPORATION: PRODUCT LAUNCHES/ENHANCEMENTS

TABLE 237 IBM CORPORATION: DEALS

11.2.4.4 MnM view

11.2.4.4.1 Key strengths/Right to win

11.2.4.4.2 Strategic choices made

11.2.4.4.3 Weaknesses and competitive threats

11.2.5 ALIBABA CLOUD

TABLE 238 ALIBABA CLOUD: BUSINESS OVERVIEW

11.2.5.1 Business overview

FIGURE 53 ALIBABA CLOUD: COMPANY SNAPSHOT

11.2.5.2 Products/Services offered

TABLE 239 ALIBABA CLOUD: PRODUCTS/SERVICES OFFERED

11.2.5.3 Recent developments

TABLE 240 ALIBABA CLOUD: PRODUCT LAUNCHES/ENHANCEMENTS

TABLE 241 ALIBABA CLOUD: DEALS

11.2.5.4 MnM view

11.2.5.4.1 Key strengths/Right to win

11.2.5.4.2 Strategic choices made

11.2.5.4.3 Weaknesses and competitive threats

11.2.6 ORACLE CORPORATION

TABLE 242 ORACLE CORPORATION: BUSINESS OVERVIEW

11.2.6.1 Business overview

FIGURE 54 ORACLE CORPORATION: COMPANY SNAPSHOT

11.2.6.2 Products/Services offered

TABLE 243 ORACLE CORPORATION: PRODUCT/SERVICES OFFERED

11.2.6.3 Recent developments

TABLE 244 ORACLE CORPORATION: PRODUCT LAUNCHES/ENHANCEMENTS

TABLE 245 ORACLE CORPORATION: DEALS

11.2.6.4 MnM view

11.2.6.4.1 Key strengths/Right to win

11.2.6.4.2 Strategic choices made

11.2.6.4.3 Weaknesses and competitive threats

11.2.7 HPE

TABLE 246 HPE: BUSINESS OVERVIEW

11.2.7.1 Business overview

FIGURE 55 HPE: COMPANY SNAPSHOT

11.2.7.2 Products/Services offered

TABLE 247 HPE: PRODUCTS/SERVICES OFFERED

11.2.7.3 Recent developments

TABLE 248 HPE: PRODUCT LAUNCHES/ENHANCEMENTS

TABLE 249 HPE: DEALS

11.2.8 TENCENT CLOUD

TABLE 250 TENCENT CLOUD: BUSINESS OVERVIEW

11.2.8.1 Business overview

FIGURE 56 TENCENT CLOUD: COMPANY SNAPSHOT**11.2.8.2 Products/Services offered****TABLE 251 TENCENT CLOUD: PRODUCTS/SERVICES OFFERED****11.2.8.3 Recent developments****TABLE 252 TENCENT CLOUD: PRODUCT LAUNCHES/ENHANCEMENTS****TABLE 253 TENCENT CLOUD: DEALS****11.2.9 SALESFORCE****TABLE 254 SALESFORCE: BUSINESS OVERVIEW****11.2.9.1 Business overview****FIGURE 57 SALESFORCE: COMPANY SNAPSHOT****11.2.9.2 Products/Services offered****TABLE 255 SALESFORCE: PRODUCTS/SERVICES OFFERED****11.2.9.3 Recent developments****TABLE 256 SALESFORCE: PRODUCT LAUNCHES/ENHANCEMENTS****TABLE 257 SALESFORCE: DEALS****11.2.10 HUAWEI****TABLE 258 HUAWEI: BUSINESS OVERVIEW****11.2.10.1 Business overview****FIGURE 58 HUAWEI: COMPANY SNAPSHOT****11.2.10.2 Products/Services offered****TABLE 259 HUAWEI: PRODUCTS/SERVICES OFFERED****11.2.10.3 Recent developments****TABLE 260 HUAWEI: PRODUCT LAUNCHES/ENHANCEMENTS****TABLE 261 HUAWEI: DEALS****11.3 OTHER PLAYERS****11.3.1 VIAVI SOLUTIONS****11.3.2 BROADCOM****11.3.3 AFL HYPERSCALE****11.3.4 OVHCLOUD****11.3.5 IRON MOUNTAIN****11.3.6 DIGITALOCEAN****11.3.7 RACKSPACE****11.3.8 NTT COMMUNICATIONS****11.3.9 DIGITAL REALITY****11.3.10 AKAMAI TECHNOLOGIES****11.4 STARTUPS/SMES****11.4.1 UPCLOUD****11.4.2 DINCLOUD****11.4.3 VULTR**

- 11.4.4 VISARTECH
- 11.4.5 TUDIP TECHNOLOGIES
- 11.4.6 HYPERSCALERS
- 11.4.7 CLOUDWAYS
- 11.4.8 JDV TECHNOLOGIES
- 11.4.9 MEGAPORT

12 ADJACENT/RELATED MARKETS

12.1 INTRODUCTION

- 12.1.1 RELATED MARKET
- 12.1.2 LIMITATIONS

12.2 CLOUD COMPUTING MARKET

TABLE 262 CLOUD COMPUTING MARKET, BY SERVICE MODEL, 2017–2021 (USD BILLION)

TABLE 263 CLOUD COMPUTING MARKET, BY SERVICE MODEL, 2022–2027 (USD BILLION)

TABLE 264 IAAS: CLOUD COMPUTING MARKET, BY REGION, 2017–2021 (USD BILLION)

TABLE 265 IAAS: CLOUD COMPUTING MARKET, BY REGION, 2022–2027 (USD BILLION)

TABLE 266 PAAS: CLOUD COMPUTING MARKET, BY REGION, 2017–2021 (USD BILLION)

TABLE 267 PAAS: CLOUD COMPUTING MARKET, BY REGION, 2022–2027 (USD BILLION)

TABLE 268 SAAS: CLOUD COMPUTING MARKET, BY REGION, 2017–2021 (USD BILLION)

TABLE 269 SAAS: CLOUD COMPUTING MARKET, BY REGION, 2022–2027 (USD BILLION)

12.3 HYPERSCALE DATA CENTER MARKET

TABLE 270 HYPERSCALE DATA CENTER MARKET, BY COMPONENT, 2015–2022 (USD BILLION)

TABLE 271 SOLUTIONS: HYPERSCALE DATA CENTER MARKET, BY TYPE, 2015–2022 (USD BILLION)

TABLE 272 SERVER MARKET, BY REGION, 2015–2022 (USD BILLION)

TABLE 273 STORAGE MARKET, BY REGION, 2015–2022 (USD BILLION)

TABLE 274 NETWORKING MARKET, BY REGION, 2015–2022 (USD BILLION)

TABLE 275 SOFTWARE MARKET, BY REGION, 2015–2022 (USD BILLION)

TABLE 276 SERVICES: HYPERSCALE DATA CENTER MARKET, BY TYPE,

2015–2022 (USD BILLION)

TABLE 277 CONSULTING MARKET, BY REGION, 2015–2022 (USD BILLION)

TABLE 278 INSTALLATION & DEPLOYMENT MARKET, BY REGION, 2015–2022
(USD BILLION)

TABLE 279 MAINTENANCE & SUPPORT MARKET, BY REGION, 2015–2022 (USD
BILLION)

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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