

# **Food Safety Testing Market by Target Tested, Technology (Traditional and Rapid), Food Tested (Meat, Poultry, Seafood, Dairy, Processed Foods, Fruits & Vegetables, and Cereals & grains) and Region - Global Forecast to 2027**

<https://marketpublishers.com/r/F1B3141C264EN.html>

Date: September 2022

Pages: 368

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

ID: F1B3141C264EN

## **Abstracts**

The market for Food safety testing is estimated at USD 21.1 Billion in 2022; it is projected to grow at a CAGR of 8.1% to reach USD 31.1 Billion by 2027. The market for food safety testing is strides with the increasing domestic demand/consumption food products that would need food safety certification to meet the regulatory compliances and with the increase food trade across the globe has increased the demand for food safety testing globally to reduce the risk of foodborne outbreak and illness and prevent food fraud.

Food safety testing is a scientifically based method to determine the food safety based on its microbiological, physical, or chemical composition. Food safety testing needs to be accurate, and definite. Food safety testing helps to address the world's growing demand for safer food and the sustainability of the food supply. Every year, food safety issues cause economic losses in countries all across world. It has been estimated that low to middle-income countries suffers at least USD 100 billion in losses per year due to foodborne illnesses. There is a need for access to a clean, safe, and sustainable food supply for human consumption. The food business has established a set of testing procedures for food safety in order to maintain the safety of the food supply. Along with other challenges related to foodborne illnesses and out breaks, food loss and production of unsafe food are minimized with adequate food safety testing and quality assurance of food products. Food safety testing can also be used to evaluate foods that have been altered to withstand drastic conditions. Awareness among consumers about safety or risks associated with contaminated food products could lead to increase in

food safety testing.

The Fruits and vegetables segment by food tested is projected to observe the second highest CAGR in the food safety testing market throughout the forecasted period

Fruits & vegetables naturally carry non-pathogenic microorganisms. However, during their growth, harvesting, transportation, further processing, and handling, they can be contaminated by pathogens, pesticides, and GMOs. The main reason for the contamination is the pesticide residue on fruits and vegetables. Hence, their market is estimated to observe growth in pesticide residue testing in the near future.

The GMOS segment by target tested is projected to account for the highest CAGR in the global food safety testing market

The market for GM food safety testing has been driven by the emergence of GM crops and the usage of GMO ingredients by multinational companies with extensive reach. Genetically modified crops are increasingly gaining acceptance and their adoption has brought huge economic and environmental benefits. In the past 17 years, these achievements have been primarily supported by two simple traits of herbicide tolerant and insect resistant crops.

The PCR based testing, by Rapid technology is projected to attain the fastest market growth in the food safety testing market throughout the forecasted period

Today, a range of pathogens can be analyzed with rapid PCR systems, depending on the individual system. These include Salmonella spp., Listeria spp., Listeria monocytogenes, Campylobacter jejuni, Cryptosporidium parvum, E. coli O157 and E. coli O157:H7. Additionally, PCR tests can detect spoilage organisms in beer and can qualitatively and quantitatively detect genetically modified organisms (GMOs) in soy and maize, as well as used for general GMO screening of other food types. Hence, it has gained a wide acceptance across the food industry and therefore supported the growth of food safety testing market.

#### Break-up of Primaries

By Company type: Tier 1: 25%, Tier 2: 35%, Tier 3: 40%

By Designation: Director level: 30%, C-level: 25%, and Manager level : 45%

By Region: Europe: 28%, Asia Pacific: 33%, North America: 17%, RoW: 22%

#### Leading players profiled in this report

SGS SA (Switzerland)

Eurofins Scientific (Luxembourg)

Intertek Group plc (UK)

Bureau Veritas (France)

ALS Limited (Australia)

T?V S?D (Germany)

T?V Nord Group (Germany)

NEOGEN Corporation (US)

M?rieux NutriSciences (US)

AsureQuality (New Zealand)

FoodChain ID (US)

R J Hill Laboratories Limited (New Zealand)

Microbac Laboratories, Inc. (US)

Romer Labs (Austria)

Symbio Laboratories (Australia)

#### Research Coverage

This report segments the Food safety testing market on the basis of food tested, target

*Food Safety Testing Market by Target Tested, Technology (Traditional and Rapid), Food Tested (Meat, Poultry, S...*

tested, technology and region. In terms of insights, this research report focuses on various levels of analyses—competitive landscape, end-use analysis, and company profiles—which together comprise and discuss the basic views on the emerging & high-growth segments of the Food safety testing market, the high-growth regions, countries, government initiatives, market disruption, drivers, restraints, opportunities, and challenges.

#### Reasons to buy this report

To get a comprehensive overview of the food safety testing market

To gain wide-ranging information about the top players in this industry, their product portfolios, and key strategies adopted by them

To gain insights about the major countries/regions, in which the food safety testing market is flourishing.

## Contents

### 1 INTRODUCTION

#### 1.1 STUDY OBJECTIVES

#### 1.2 MARKET DEFINITION

#### 1.3 MARKET SCOPE

##### 1.3.1 MARKETS COVERED

#### FIGURE 1 FOOD SAFETY TESTING: MARKET SEGMENTATION

##### 1.3.2 REGIONS COVERED

#### 1.4 INCLUSIONS & EXCLUSIONS

#### 1.5 YEARS CONSIDERED

#### 1.6 CURRENCY CONSIDERED

#### TABLE 1 USD EXCHANGE RATES CONSIDERED FOR THE STUDY, 2018–2021

#### 1.7 STAKEHOLDERS

#### 1.8 SUMMARY OF CHANGES

### 2 RESEARCH METHODOLOGY

#### 2.1 RESEARCH DATA

#### FIGURE 2 FOOD SAFETY TESTING MARKET: 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 Breakdown of primaries

###### 2.1.2.2 Key industry insights

#### 2.2 MARKET SIZE ESTIMATION

##### 2.2.1 BOTTOM-UP

##### 2.2.2 TOP-DOWN

##### 2.2.3 SUPPLY-SIDE

#### FIGURE 3 DATA TRIANGULATION: SUPPLY-SIDE

##### 2.2.4 DEMAND-SIDE

#### FIGURE 4 DATA TRIANGULATION: DEMAND-SIDE

#### 2.3 DATA TRIANGULATION

#### FIGURE 5 DATA TRIANGULATION METHODOLOGY

#### 2.4 RESEARCH ASSUMPTIONS

#### 2.5 RESEARCH LIMITATIONS & ASSOCIATED RISKS

### 3 EXECUTIVE SUMMARY

TABLE 2 FOOD SAFETY TESTING MARKET SNAPSHOT, 2022 VS. 2027

FIGURE 6 FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2022 VS. 2027 (USD MILLION)

FIGURE 7 FOOD SAFETY TESTING MARKET SIZE, BY FOOD TESTED, 2022 VS. 2027 (USD MILLION)

FIGURE 8 FOOD SAFETY TESTING MARKET SIZE, BY TECHNOLOGY, 2022 VS. 2027 (USD MILLION)

FIGURE 9 FOOD SAFETY TESTING MARKET SHARE, BY REGION, 2021

## **4 PREMIUM INSIGHTS**

4.1 OPPORTUNITIES FOR PLAYERS IN FOOD SAFETY TESTING MARKET

FIGURE 10 INCREASING AWARENESS AMONG CONSUMERS ABOUT FOOD SAFETY AND HEALTH CONCERNS

4.2 FOOD SAFETY TESTING MARKET, BY TECHNOLOGY

FIGURE 11 RAPID TESTING TO BE PREFERRED TECHNOLOGY

4.3 FOOD SAFETY TESTING MARKET, BY FOOD TESTED

FIGURE 12 MEAT, POULTRY, AND SEAFOOD TO BE LARGEST SEGMENT

4.4 FOOD SAFETY TESTING MARKET, BY TARGET TESTED

FIGURE 13 PATHOGENS TO BE MOST TESTED CONTAMINANTS

4.5 ASIA PACIFIC: FOOD SAFETY TESTING MARKET, BY KEY COUNTRY AND TARGET TESTED

FIGURE 14 CHINA WAS MAJOR CONSUMER IN ASIA PACIFIC IN 2021

4.6 FOOD SAFETY TESTING MARKET, BY TARGET TESTED AND REGION

FIGURE 15 EUROPE TO ACCOUNT FOR LARGEST SHARE OF FOOD SAFETY TESTING, 2022 VS. 2027

4.7 FOOD SAFETY TESTING MARKET: MAJOR REGIONAL SUBMARKETS

FIGURE 16 US ACCOUNTED FOR LARGEST MARKET SHARE IN 2021

## **5 MARKET OVERVIEW**

5.1 INTRODUCTION

5.2 MACROECONOMIC INDICATORS

5.2.1 INCREASE IN GLOBAL OUTBREAKS OF FOODBORNE ILLNESSES

FIGURE 17 FIVE PATHOGENS ACCOUNTED FOR MOST FOODBORNE ILLNESSES COST IN US

FIGURE 18 BURDEN OF FOODBORNE ILLNESS ACROSS REGIONS, 2020

5.2.2 INCREASED GLOBAL FOOD TRADE

FIGURE 19 GLOBAL AGRI-FOOD EXPORT, 2018–2020 (USD BILLION)

FIGURE 20 COUNTRY-WISE PREPARED FOODS TRADE SCENARIOS, 2021 (USD THOUSAND)

### 5.3 MARKET DYNAMICS

FIGURE 21 DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES IN FOOD SAFETY TESTING MARKET

#### 5.3.1 DRIVERS

5.3.1.1 Cross-contamination of food products due to complex processes

5.3.1.2 Stringent food safety regulations

5.3.1.3 Availability of advanced rapid technology

5.3.1.4 Increase in demand for convenience and packaged food products

FIGURE 22 RISING GLOBAL MEAT EXPORTS, 2017–2020 (KILOTON)

5.3.1.5 Rising food recalls due to non-compliant food products

FIGURE 23 RECALLED PRODUCTS BY FISCAL YEARS, 2012–2022

TABLE 3 FOOD RECALL BY REASONS IN THE US, 2021

TABLE 4 LIST OF FOOD RECALLS, 2020–2021

FIGURE 24 CATEGORY-WISE FDA FOOD RECALLS, 2019

5.3.1.6 Rise in consumer awareness about food safety

FIGURE 25 FOOD SAFETY AWARENESS AMONGST CONSUMERS IN THE US, 2019

FIGURE 26 CONSUMER CHECKS FOR LABEL AND NUTRITIONAL INFORMATION PANEL (NIP) ON FOOD PRODUCTS (% OF CONSUMERS)

#### 5.3.2 RESTRAINTS

5.3.2.1 Lack of coordination between market stakeholders and improper enforcement of regulatory laws and supporting infrastructure

5.3.2.2 Complexity in testing techniques

5.3.2.2.1 Difficulties in detection of unknown adulterants by chemical tests

5.3.2.2.2 Varying test results with test methods

#### 5.3.3 OPPORTUNITIES

5.3.3.1 Technological advancements in testing industry

TABLE 5 TOP FOOD TESTING TECHNOLOGY INNOVATIONS

5.3.3.2 Spike in food safety concerns after COVID-19

#### 5.3.4 CHALLENGES

5.3.4.1 Lack of harmonization of food safety standards

5.3.4.2 High cost associated with procurement of food safety testing equipment

## 6 INDUSTRY TRENDS

### 6.1 INTRODUCTION

## 6.2 SUPPLY CHAIN ANALYSIS

### 6.2.1 UPSTREAM PROCESS

#### 6.2.1.1 R&D

#### 6.2.1.2 Production

### 6.2.2 MIDSTREAM PROCESS

#### 6.2.2.1 Processing & transforming

#### 6.2.2.2 Transportation

### 6.2.3 DOWNSTREAM PROCESS

#### 6.2.3.1 Final preparation

#### 6.2.3.2 Distribution

## FIGURE 27 SUPPLY CHAIN ANALYSIS

## FIGURE 28 FOOD SAFETY MANAGEMENT SYSTEM (FSMS)

## 6.3 VALUE CHAIN ANALYSIS

### 6.3.1 INPUT MARKET

### 6.3.2 FOOD MARKET

### 6.3.3 DISTRIBUTION

## FIGURE 29 VALUE CHAIN ANALYSIS: FOOD DEALERS ADD 2% TO 7% TO THE PRICE OF THE END PRODUCTS

## 6.4 TECHNOLOGY ANALYSIS

### 6.4.1 FOURIER TRANSFORM INFRARED (FTIR)

### 6.4.2 MICROARRAY

### 6.4.3 PHAGE

### 6.4.4 BIOCHIP

### 6.4.5 BIOSENSOR

### 6.4.6 FLOW CYTOMETRY

### 6.4.7 NMR

### 6.4.8 NIRS

### 6.4.9 ICP

## 6.5 PATENT ANALYSIS

## FIGURE 30 PATENTS GRANTED FOR FOOD SAFETY TESTING MARKET, 2011–2021

## FIGURE 31 REGIONAL ANALYSIS OF PATENTS GRANTED FOR FOOD SAFETY TESTING MARKET, 2011–2021

## TABLE 6 KEY PATENTS FOR FOOD SAFETY TESTING MARKET, 2020–2022

## 6.6 MARKET MAP

## FIGURE 32 FOOD SAFETY TESTING: MARKET MAP

### 6.6.1 MANUFACTURERS

### 6.6.2 SERVICE PROVIDERS

### 6.6.3 TECHNOLOGY PROVIDERS



#### 6.6.4 FOOD SAFETY AUTHORITIES

#### TABLE 7 FOOD SAFETY TESTING MARKET: ECOSYSTEM

#### 6.7 PORTER'S FIVE FORCES ANALYSIS

#### TABLE 8 FOOD SAFETY TESTING MARKET: PORTER'S FIVE FORCES ANALYSIS

##### 6.7.1 DEGREE OF COMPETITION

##### 6.7.2 BARGAINING POWER OF BUYERS

##### 6.7.3 BARGAINING POWER OF SUPPLIERS

##### 6.7.4 THREAT OF SUBSTITUTES

##### 6.7.5 THREAT OF NEW ENTRANTS

#### 6.8 TRADE SCENARIO

#### FIGURE 33 MEAT & MEAT PRODUCTS: IMPORT VALUE, BY KEY COUNTRY, 2017–2021 (USD THOUSAND)

#### TABLE 9 IMPORT DATA OF MEAT AND MEAT PRODUCTS FOR KEY COUNTRIES, 2021 (VALUE AND VOLUME)

#### FIGURE 34 MEAT & MEAT PRODUCTS: EXPORT VALUE, BY KEY COUNTRY, 2017–2021 (USD THOUSAND)

#### TABLE 10 EXPORT DATA OF MEAT AND MEAT PRODUCTS FOR KEY COUNTRIES, 2021 (VALUE AND VOLUME)

#### FIGURE 35 EU TRADE IN AGRICULTURAL PRODUCTS, 2017–2021 (EURO BILLION)

#### FIGURE 36 FRUITS & NUTS: IMPORT VALUE, BY KEY COUNTRY, 2017–2021 (USD THOUSAND)

#### TABLE 11 IMPORT DATA OF FRUITS AND NUTS FOR KEY COUNTRIES, 2021 (VALUE AND VOLUME)

#### FIGURE 37 FRUITS & NUTS: EXPORT VALUE, BY KEY COUNTRY, 2017–2021 (USD THOUSAND)

#### TABLE 12 EXPORT DATA OF FRUITS AND NUTS FOR KEY COUNTRIES, 2021 (VALUE AND VOLUME)

#### FIGURE 38 DAIRY PRODUCTS: IMPORT VALUE, BY KEY COUNTRY, 2017–2021 (USD THOUSAND)

#### TABLE 13 IMPORT DATA OF DAIRY PRODUCTS FOR KEY COUNTRIES, 2021 (VALUE)

#### FIGURE 39 DAIRY PRODUCTS: EXPORT VALUE, BY KEY COUNTRY, 2017–2021 (USD THOUSAND)

#### TABLE 14 EXPORT DATA OF DAIRY PRODUCTS FOR KEY COUNTRIES, 2021 (VALUE)

#### 6.9 KEY CONFERENCES & EVENTS IN 2022–2023

#### TABLE 15 FOOD SAFETY TESTING MARKET: DETAILED LIST OF CONFERENCES & EVENTS, 2022–2023

## 6.10 TARIFF AND REGULATORY LANDSCAPE

### 6.10.1 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 16 NORTH AMERICA: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 17 EUROPE: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 18 ASIA PACIFIC: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 19 REST OF THE WORLD: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

### 6.10.2 TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESSES

FIGURE 40 REVENUE SHIFT FOR FOOD SAFETY TESTING SERVICES

## 6.11 CASE STUDY ANALYSIS

6.11.1 FOOD TEST QUALITY, ACCURACY, AND TURN-AROUND TIME PLAY CRUCIAL ROLES IN DETERMINING OVERALL FOOD SAFETY

6.11.2 SUNSHINE MILLS, INC. BEGAN USING BARROW-AGEE LABORATORIES AS ITS GO-TO LAB FOR ALL OF ITS QUALITY TESTING NEEDS

## 6.12 KEY STAKEHOLDERS AND BUYING CRITERIA

### 6.12.1 KEY STAKEHOLDERS IN BUYING PROCESS

FIGURE 41 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TECHNOLOGIES

TABLE 20 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TECHNOLOGIES (%)

### 6.12.2 BUYING CRITERIA

TABLE 21 KEY CRITERIA FOR SELECTING SUPPLIER/VENDOR

FIGURE 42 KEY CRITERIA FOR SELECTING SUPPLIER/VENDOR

## 7 REGULATIONS FOR FOOD SAFETY TESTING MARKET

### 7.1 INTRODUCTION

### 7.2 INTERNATIONAL BODY FOR FOOD SAFETY STANDARDS AND REGULATIONS

#### 7.2.1 CODEX ALIMENTARIUS COMMISSION (CAC)

#### 7.2.2 GLOBAL FOOD SAFETY INITIATIVE (GFSI)

### 7.3 NORTH AMERICA

#### 7.3.1 US REGULATIONS

##### 7.3.1.1 Federal legislation

##### 7.3.1.1.1 State legislation

##### 7.3.1.1.2 Food safety in retail food

7.3.1.1.3 Food safety in trade

7.3.1.1.4 HACCP regulation in the US

7.3.1.1.5 US regulation for foodborne pathogens in poultry

7.3.1.1.6 Food safety regulations for fruit & vegetable growers

7.3.1.1.7 GMO regulations in the US

7.3.1.1.8 FDA Food Safety Modernization Act (FSMA)

7.3.1.1.9 Labeling of GM foods

#### TABLE 22 FEDERAL FOOD, DRUG, AND COSMETIC ACT, BY TOLERANCE OF RAW & PROCESSED FOOD

7.3.1.1.10 Regulatory guidance by FDA for aflatoxins

7.3.1.1.11 Pesticide regulation in the US

7.3.2 CANADA

7.3.3 MEXICO

7.4 EUROPE

7.4.1 EUROPEAN UNION REGULATIONS

#### FIGURE 43 LEGISLATION PROCESS IN THE EU

7.4.1.1 Microbiological criteria regulation

7.4.1.2 Melamine legislation

#### TABLE 23 MAXIMUM LEVEL FOR MELAMINE & ITS STRUCTURAL ANALOGS

7.4.1.3 General food law for food safety

#### FIGURE 44 ROLE OF EFSA IN REDUCING CAMPYLOBACTERIOSIS

7.4.1.4 GMOs regulation

#### TABLE 24 GMOS: LABELING REQUIREMENT

7.4.1.5 Regulations on mycotoxins

7.4.1.5.1 Ochratoxin A

#### TABLE 25 COMMISSION REGULATION FOR OCHRATOXIN A

7.4.1.5.2 Dioxins and PBCs

7.4.1.5.3 Fusarium toxins

7.4.1.5.4 Aflatoxins

7.4.1.5.5 Polycyclic Aromatic Hydrocarbons (PAH)

7.4.2 GERMANY

7.4.3 UK

7.4.3.1 Mycotoxins regulations

#### TABLE 26 MAXIMUM LEVELS OF VARIOUS TYPES OF MYCOTOXINS IN DIFFERENT FOODS

7.4.4 FRANCE

7.4.5 ITALY

7.4.6 POLAND

7.5 ASIA PACIFIC

## 7.5.1 CHINA

### 7.5.1.1 Regulating bodies for food safety

### 7.5.1.2 Major efforts of China to standardize its food safety system

## 7.5.2 JAPAN

## 7.5.3 INDIA

### 7.5.3.1 Food safety standards amendment regulations, 2012

### 7.5.3.2 Food safety standards amendment regulations, 2011

### 7.5.3.3 Food Safety and Standards Act, 2006

## 7.5.4 AUSTRALIA

### 7.5.4.1 Food Standards in Australia and New Zealand

## 7.5.5 NEW ZEALAND

### 7.5.5.1 GMOs labeling regulation in Asia Pacific

## TABLE 27 GMOS LABELING IN ASIA PACIFIC COUNTRIES

## 7.5.6 INDONESIA

### 7.5.6.1 General law for food safety

## 7.5.7 REGULATIONS ON PESTICIDES

## 7.5.8 REGULATIONS ON MYCOTOXINS IN FOOD

## 7.5.9 CHEMICAL CONTAMINANTS

## 7.5.10 GENETICALLY ENGINEERED FOODS

## 7.5.11 ALLERGEN: REGULATIONS ON ALLERGEN LABELING IN FOOD

## 7.6 REST OF THE WORLD

## 7.6.1 SOUTH AFRICA

### 7.6.1.1 International vs. local standards & legislations

### 7.6.1.2 Private standards in South Africa and the requirements for product testing

## 7.6.2 BRAZIL

### 7.6.2.1 Ministry of Agriculture, Livestock, and Food Supply (MAPA)

### 7.6.2.2 Ministry of Health (MS)

## 7.6.3 ARGENTINA

# 8 FOOD SAFETY TESTING MARKET, BY TARGET TESTED

## 8.1 INTRODUCTION

FIGURE 45 FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2022 VS. 2027 (USD MILLION)

TABLE 28 FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2017–2021 (USD MILLION)

TABLE 29 FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2022–2027 (USD MILLION)

## 8.2 PATHOGENS

FIGURE 46 NUMBER OF LABORATORY-DIAGNOSED BACTERIAL AND PARASITIC INFECTIONS, HOSPITALIZATIONS, AND DEATHS IN THE US, 2017–2019

TABLE 30 US: INCIDENCE OF BACTERIAL AND PARASITIC INFECTIONS IN 2020

FIGURE 47 US: MULTISTATE FOODBORNE DISEASE OUTBREAKS, 1998–2018

TABLE 31 PATHOGENS: FOOD SAFETY TESTING MARKET SIZE, BY REGION, 2017–2021 (USD MILLION)

TABLE 32 PATHOGENS: FOOD SAFETY TESTING MARKET SIZE, BY REGION, 2022–2027 (USD MILLION)

TABLE 33 PATHOGENS: FOOD SAFETY TESTING MARKET SIZE, BY FOOD TESTED, 2017–2021 (USD MILLION)

TABLE 34 PATHOGENS: FOOD SAFETY TESTING MARKET SIZE, BY FOOD TESTED, 2022–2027 (USD MILLION)

FIGURE 48 FOOD SAFETY TESTING FOR PATHOGENS, BY FOOD TESTED, 2022–2027 (USD MILLION)

TABLE 35 PATHOGENS: FOOD SAFETY TESTING MARKET SIZE, BY TECHNOLOGY, 2017–2021 (USD MILLION)

TABLE 36 PATHOGENS: FOOD SAFETY TESTING MARKET SIZE, BY TECHNOLOGY, 2022–2027 (USD MILLION)

TABLE 37 PATHOGENS: FOOD SAFETY TESTING MARKET SIZE, BY RAPID TECHNOLOGY, 2017–2021 (USD MILLION)

TABLE 38 PATHOGENS: FOOD SAFETY TESTING MARKET SIZE, BY RAPID TECHNOLOGY, 2022–2027 (USD MILLION)

FIGURE 49 SALMONELLA TO LEAD FOOD SAFETY TESTING MARKET, 2022 VS. 2027

TABLE 39 PATHOGENS: FOOD SAFETY TESTING MARKET SIZE, BY SUBSEGMENT, 2017–2021 (USD MILLION)

TABLE 40 PATHOGENS: FOOD SAFETY TESTING MARKET SIZE, BY SUBSEGMENT, 2022–2027 (USD MILLION)

#### 8.2.1 E. COLI

8.2.1.1 Food safety testing and supervising hygiene standards can lower events of E. coli food poisoning

FIGURE 50 NUMBER OF LABORATORY-DIAGNOSED INFECTIONS, BY PATHOGEN, MONTH, AND YEAR, 2017–2020

FIGURE 51 TRANSMISSION CYCLE OF ETEC (ENTEROTOXIGENIC E. COLI)

TABLE 41 E. COLI: FOOD SAFETY TESTING MARKET SIZE, BY FOOD TESTED, 2017–2021 (USD MILLION)

TABLE 42 E. COLI: FOOD SAFETY TESTING MARKET SIZE, BY FOOD TESTED, 2022–2027 (USD MILLION)

#### 8.2.2 SALMONELLA

#### 8.2.2.1 Major food recalls because of Salmonella contamination

FIGURE 52 US: NUMBER OF LABORATORY-DIAGNOSED INFECTIONS, BY SALMONELLA, MONTH, AND YEAR, 2017–2020

TABLE 43 SALMONELLA: FOOD SAFETY TESTING MARKET SIZE, BY FOOD TESTED, 2017–2021 (USD MILLION)

TABLE 44 SALMONELLA: FOOD SAFETY TESTING MARKET SIZE, BY FOOD TESTED, 2022–2027 (USD MILLION)

#### 8.2.3 CAMPYLOBACTER

##### 8.2.3.1 Most common cause of bacterial foodborne illness in North America

FIGURE 53 US: NUMBER OF LABORATORY-DIAGNOSED INFECTIONS, BY CAMPYLOBACTER, MONTH, AND YEAR, 2017–2020

TABLE 45 CAMPYLOBACTER: FOOD SAFETY TESTING MARKET SIZE, BY FOOD TESTED, 2017–2021 (USD MILLION)

TABLE 46 CAMPYLOBACTER: FOOD SAFETY TESTING MARKET SIZE, BY FOOD TESTED, 2022–2027 (USD MILLION)

#### 8.2.4 LISTERIA

##### 8.2.4.1 Found in moist environments, soil, water, decaying vegetation, and animals

FIGURE 54 US: MOST COMMON CAUSES FOR FOOD RECALLS IN 2019

TABLE 47 LISTERIA: FOOD SAFETY TESTING MARKET SIZE, BY FOOD TESTED, 2017–2021 (USD MILLION)

TABLE 48 LISTERIA: FOOD SAFETY TESTING MARKET SIZE, BY FOOD TESTED, 2022–2027 (USD MILLION)

FIGURE 55 US: NUMBER OF LABORATORY-DIAGNOSED INFECTIONS, BY LISTERIA, MONTH, AND YEAR, 2017–2020

#### 8.2.5 OTHER PATHOGENS

TABLE 49 OTHER PATHOGENS: FOOD SAFETY TESTING MARKET SIZE, BY FOOD TESTED, 2017–2021 (USD MILLION)

TABLE 50 OTHER PATHOGENS: FOOD SAFETY TESTING MARKET SIZE, BY FOOD TESTED, 2022–2027 (USD MILLION)

### 8.3 PESTICIDES

#### 8.3.1 TECHNOLOGICAL ADVANCEMENT IN FOOD SAFETY TESTING

FIGURE 56 US: PESTICIDE DETECTION IN FOOD, 1994–2019

TABLE 51 PESTICIDES: FOOD SAFETY TESTING MARKET SIZE, BY REGION, 2017–2021 (USD MILLION)

TABLE 52 PESTICIDES: FOOD SAFETY TESTING MARKET SIZE, BY REGION, 2022–2027 (USD MILLION)

TABLE 53 PESTICIDES: FOOD SAFETY TESTING MARKET SIZE, BY FOOD TESTED, 2017–2021 (USD MILLION)

TABLE 54 PESTICIDES: FOOD SAFETY TESTING MARKET SIZE, BY FOOD

TESTED, 2022–2027 (USD MILLION)

TABLE 55 PESTICIDES: FOOD SAFETY TESTING MARKET SIZE, BY TECHNOLOGY, 2017–2021 (USD MILLION)

TABLE 56 PESTICIDES: FOOD SAFETY TESTING MARKET SIZE, BY TECHNOLOGY, 2022–2027 (USD MILLION)

TABLE 57 PESTICIDES: FOOD SAFETY TESTING MARKET SIZE, BY RAPID TECHNOLOGY, 2017–2021 (USD MILLION)

TABLE 58 PESTICIDES: FOOD SAFETY TESTING MARKET SIZE, BY RAPID TECHNOLOGY, 2022–2027 (USD MILLION)

## 8.4 GMOS

### 8.4.1 HUGE ECONOMIC AND ENVIRONMENTAL BENEFITS

FIGURE 57 INCREASING AREA FOR GM CROP PRODUCTION, 2001–2018 (MILLION HECTARES)

#### 8.4.1.1 GM varieties, by crop

FIGURE 58 GLOBAL ADOPTION OF GM CROPS, 2019

#### 8.4.1.2 GM varieties, by trait

TABLE 59 GMOS: FOOD SAFETY TESTING MARKET SIZE, BY REGION, 2017–2021 (USD MILLION)

TABLE 60 GMOS: FOOD SAFETY TESTING MARKET SIZE, BY REGION, 2022–2027 (USD MILLION)

TABLE 61 GMOS: FOOD SAFETY TESTING MARKET SIZE, BY FOOD TESTED, 2017–2021 (USD MILLION)

TABLE 62 GMOS: FOOD SAFETY TESTING MARKET SIZE, BY FOOD TESTED, 2022–2027 (USD MILLION)

TABLE 63 GMOS: FOOD SAFETY TESTING MARKET SIZE, BY TECHNOLOGY, 2017–2021 (USD MILLION)

TABLE 64 GMOS: FOOD SAFETY TESTING MARKET SIZE, BY TECHNOLOGY, 2022–2027 (USD MILLION)

TABLE 65 GMOS: FOOD SAFETY TESTING MARKET SIZE, BY RAPID TECHNOLOGY, 2017–2021 (USD MILLION)

TABLE 66 GMOS: FOOD SAFETY TESTING MARKET SIZE, BY RAPID TECHNOLOGY, 2022–2027 (USD MILLION)

## 8.5 MYCOTOXINS

### 8.5.1 DISTRESS AND ADVERSE HEALTH EFFECTS UPON CONSUMPTION

TABLE 67 FDA ACTION LEVELS FOR AFLATOXINS

TABLE 68 AVERAGE CONCENTRATIONS FOR OCHRATOXIN A IN DIFFERENT FOOD PRODUCTS

TABLE 69 MYCOTOXINS: FOOD SAFETY TESTING MARKET SIZE, BY REGION, 2017–2021 (USD MILLION)



TABLE 70 MYCOTOXINS: FOOD SAFETY TESTING MARKET SIZE, BY REGION, 2022–2027 (USD MILLION)

TABLE 71 MYCOTOXINS: FOOD SAFETY TESTING MARKET SIZE, BY FOOD TESTED, 2017–2021 (USD MILLION)

TABLE 72 MYCOTOXINS: FOOD SAFETY TESTING MARKET SIZE, BY FOOD TESTED, 2022–2027 (USD MILLION)

TABLE 73 MYCOTOXINS: FOOD SAFETY TESTING MARKET SIZE, BY TECHNOLOGY, 2017–2021 (USD MILLION)

TABLE 74 MYCOTOXINS: FOOD SAFETY TESTING MARKET SIZE, BY TECHNOLOGY, 2022–2027 (USD MILLION)

TABLE 75 MYCOTOXINS: FOOD SAFETY TESTING MARKET SIZE, BY RAPID TECHNOLOGY, |2017–2021 (USD MILLION)

TABLE 76 MYCOTOXINS: FOOD SAFETY TESTING MARKET SIZE, BY RAPID TECHNOLOGY, 2022–2027 (USD MILLION)

## 8.6 ALLERGENS

### 8.6.1 STRICT LABELING GUIDELINES FOR ALLERGEN-INDUCED PRODUCTS

TABLE 77 ALLERGENS: FOOD SAFETY TESTING MARKET SIZE, BY REGION, 2017–2021 (USD MILLION)

TABLE 78 ALLERGENS: FOOD SAFETY TESTING MARKET SIZE, BY REGION, 2022–2027 (USD MILLION)

TABLE 79 ALLERGENS: FOOD SAFETY TESTING MARKET SIZE, BY FOOD TESTED, 2017–2021 (USD MILLION)

TABLE 80 ALLERGENS: FOOD SAFETY TESTING MARKET SIZE, BY FOOD TESTED, 2022–2027 (USD MILLION)

TABLE 81 ALLERGENS: FOOD SAFETY TESTING MARKET SIZE, BY TECHNOLOGY, 2017–2021 (USD MILLION)

TABLE 82 ALLERGENS: FOOD SAFETY TESTING MARKET SIZE, BY TECHNOLOGY, 2022–2027 (USD MILLION)

TABLE 83 ALLERGENS: FOOD SAFETY TESTING MARKET SIZE, BY RAPID TECHNOLOGY, 2017–2021 (USD MILLION)

TABLE 84 ALLERGENS: FOOD SAFETY TESTING MARKET SIZE, BY RAPID TECHNOLOGY, 2022–2027 (USD MILLION)

## 8.7 HEAVY METALS

### 8.7.1 CONTAMINATION OF FOOD CHAIN AND HARM TO PUBLIC HEALTH

TABLE 85 SPECIFIC RELEASE LIMITS (SRL) FOR HEAVY METALS AS CONTAMINANTS & IMPURITIES

TABLE 86 HEAVY METALS: FOOD SAFETY TESTING MARKET SIZE, BY REGION, 2017–2021 (USD MILLION)

TABLE 87 HEAVY METALS: FOOD SAFETY TESTING MARKET SIZE, BY REGION,



2022–2027 (USD MILLION)

TABLE 88 HEAVY METALS: FOOD SAFETY TESTING MARKET SIZE, BY FOOD TESTED, 2017–2021 (USD MILLION)

TABLE 89 HEAVY METALS: FOOD SAFETY TESTING MARKET SIZE, BY FOOD TESTED, 2022–2027 (USD MILLION)

TABLE 90 HEAVY METALS: FOOD SAFETY TESTING MARKET SIZE, BY TECHNOLOGY, 2017–2021 (USD MILLION)

TABLE 91 HEAVY METALS: FOOD SAFETY TESTING MARKET SIZE, BY TECHNOLOGY, 2022–2027 (USD MILLION)

TABLE 92 HEAVY METALS: FOOD SAFETY TESTING MARKET SIZE, BY RAPID TECHNOLOGY, 2017–2021 (USD MILLION)

TABLE 93 HEAVY METALS: FOOD SAFETY TESTING MARKET SIZE, BY RAPID TECHNOLOGY, 2022–2027 (USD MILLION)

8.8 OTHERS

TABLE 94 OTHERS: FOOD SAFETY TESTING MARKET SIZE, BY REGION, 2017–2021 (USD MILLION)

TABLE 95 OTHERS: FOOD SAFETY TESTING MARKET SIZE, BY REGION, 2022–2027 (USD MILLION)

TABLE 96 OTHERS: FOOD SAFETY TESTING MARKET SIZE, BY FOOD TESTED, 2017–2021 (USD MILLION)

TABLE 97 OTHERS: FOOD SAFETY TESTING MARKET SIZE, BY FOOD TESTED, 2022–2027 (USD MILLION)

TABLE 98 OTHERS: FOOD SAFETY TESTING MARKET SIZE, BY TECHNOLOGY, 2017–2021 (USD MILLION)

TABLE 99 OTHERS: FOOD SAFETY TESTING MARKET SIZE, BY TECHNOLOGY, 2022–2027 (USD MILLION)

TABLE 100 OTHERS: FOOD SAFETY TESTING MARKET SIZE, BY RAPID TECHNOLOGY, 2017–2021 (USD MILLION)

TABLE 101 OTHERS: FOOD SAFETY TESTING MARKET SIZE, BY RAPID TECHNOLOGY, 2022–2027 (USD MILLION)

## **9 FOOD SAFETY TESTING MARKET, BY FOOD TESTED**

### **9.1 INTRODUCTION**

TABLE 102 FOOD SAFETY TESTING MARKET: FOODBORNE PATHOGENS, BY FOOD SOURCE

FIGURE 59 US: FOODS THAT CAUSED OUTBREAK-ASSOCIATED ILLNESSES, 2009–2018

FIGURE 60 EU: NUMBER OF OUTBREAKS AND HUMAN CASES, BY FOOD

VEHICLE, 2019

TABLE 103 EU: OCCURRENCE OF CAMPYLOBACTER IN MAJOR FOOD CATEGORIES

TABLE 104 FOOD RECALLS IN US, 2021–2022

FIGURE 61 US: FOOD RECALLS, BY CONTAMINANT CATEGORY, 2021

FIGURE 62 FOOD SAFETY TESTING MARKET SIZE, BY FOOD TESTED, 2022 VS. 2027

TABLE 105 FOOD SAFETY TESTING MARKET SIZE, BY FOOD TESTED, 2017–2021 (USD MILLION)

TABLE 106 FOOD SAFETY TESTING MARKET SIZE, BY FOOD TESTED, 2022–2027 (USD MILLION)

## 9.2 MEAT, POULTRY, AND SEAFOOD

9.2.1 UNSANITARY ABATTOIRS AND IMPROPER ANIMAL HANDLING CAUSE FOODBORNE DISEASES

FIGURE 63 EU: FREQUENCY DISTRIBUTION OF STRONG-EVIDENCE FOODBORNE OUTBREAKS, BY FOOD VEHICLE, 2020

TABLE 107 FOOD SAFETY TESTING MARKET SIZE FOR MEAT, POULTRY, AND SEAFOOD, BY TARGET TESTED, 2017–2021 (USD MILLION)

TABLE 108 FOOD SAFETY TESTING MARKET SIZE FOR MEAT, POULTRY, AND SEAFOOD, BY TARGET TESTED, 2022–2027 (USD MILLION)

TABLE 109 FOOD SAFETY TESTING MARKET SIZE FOR MEAT, POULTRY, AND SEAFOOD, BY PATHOGEN, 2017–2021 (USD MILLION)

TABLE 110 FOOD SAFETY TESTING MARKET SIZE FOR MEAT, POULTRY, AND SEAFOOD, BY PATHOGEN, 2022–2027 (USD MILLION)

## 9.3 DAIRY PRODUCTS

9.3.1 OUTBREAK OF ILLNESSES DUE TO CONSUMPTION OF UNPASTEURIZED MILK

FIGURE 64 EU: FREQUENCY DISTRIBUTION OF FOODBORNE ILLNESSES RELATED TO DAIRY PRODUCTS, 2020

TABLE 111 FOOD SAFETY TESTING MARKET SIZE FOR DAIRY PRODUCTS, BY TARGET TESTED, 2017–2021 (USD MILLION)

TABLE 112 FOOD SAFETY TESTING MARKET SIZE FOR DAIRY PRODUCTS, BY TARGET TESTED, 2022–2027 (USD MILLION)

TABLE 113 FOOD SAFETY TESTING MARKET SIZE FOR DAIRY PRODUCTS, BY PATHOGEN, 2017–2021 (USD MILLION)

TABLE 114 FOOD SAFETY TESTING MARKET SIZE FOR DAIRY PRODUCTS, BY PATHOGEN, 2022–2027 (USD MILLION)

## 9.4 PROCESSED FOOD

9.4.1 RISING NUMBER OF RETAIL MARKETS FOR CONTAMINATED RTE FOOD

## PRODUCTS POSES A CHALLENGE

TABLE 115 FOOD SAFETY TESTING MARKET SIZE FOR PROCESSED FOODS, BY TARGET TESTED, 2017–2021 (USD MILLION)

TABLE 116 FOOD SAFETY TESTING MARKET SIZE FOR PROCESSED FOODS, BY TARGET TESTED, 2022–2027 (USD MILLION)

TABLE 117 FOOD SAFETY TESTING MARKET SIZE FOR PROCESSED FOODS, BY PATHOGEN, 2017–2021 (USD MILLION)

TABLE 118 FOOD SAFETY TESTING MARKET SIZE FOR PROCESSED FOODS, BY PATHOGEN, 2022–2027 (USD MILLION)

## 9.5 FRUITS & VEGETABLES

### 9.5.1 PESTICIDE RESIDUES TO BE A CHALLENGE

TABLE 119 FOOD SAFETY TESTING MARKET SIZE FOR FRUITS AND VEGETABLES, BY TARGET TESTED, 2017–2021 (USD MILLION)

TABLE 120 FOOD SAFETY TESTING MARKET SIZE FOR FRUITS AND VEGETABLES, BY TARGET TESTED, 2022–2027 (USD MILLION)

TABLE 121 FOOD SAFETY TESTING MARKET SIZE FOR FRUITS & VEGETABLES, BY PATHOGEN, 2017–2021 (USD MILLION)

TABLE 122 FOOD SAFETY TESTING MARKET SIZE FOR FRUITS & VEGETABLES, BY PATHOGEN, 2022–2027 (USD MILLION)

## 9.6 CEREALS & GRAINS

### 9.6.1 CONTAMINATION WITH TOXINS

TABLE 123 FOOD SAFETY TESTING MARKET SIZE FOR CEREALS AND GRAINS, BY TARGET TESTED, 2017–2021 (USD MILLION)

TABLE 124 FOOD SAFETY TESTING MARKET SIZE FOR CEREALS AND GRAINS, BY TARGET TESTED, 2022–2027 (USD MILLION)

TABLE 125 FOOD SAFETY TESTING MARKET SIZE FOR CEREALS AND GRAINS, BY PATHOGEN, 2017–2021 (USD MILLION)

TABLE 126 FOOD SAFETY TESTING MARKET SIZE FOR CEREALS AND GRAINS, BY PATHOGEN, 2022–2027 (USD MILLION)

## 9.7 OTHERS

TABLE 127 FOOD SAFETY TESTING MARKET SIZE FOR OTHERS, BY TARGET TESTED, 2017–2021 (USD MILLION)

TABLE 128 FOOD SAFETY TESTING MARKET SIZE FOR OTHERS, BY TARGET TESTED, 2022–2027 (USD MILLION)

TABLE 129 FOOD SAFETY TESTING MARKET SIZE FOR OTHERS, BY PATHOGEN, 2017–2021 (USD MILLION)

TABLE 130 FOOD SAFETY TESTING MARKET SIZE FOR OTHERS, BY PATHOGEN, 2022–2027 (USD MILLION)

## 10 FOOD SAFETY TESTING MARKET, BY TECHNOLOGY

### 10.1 INTRODUCTION

FIGURE 65 FOOD SAFETY TESTING MARKET SIZE, BY TECHNOLOGY, 2022 VS. 2027 (USD MILLION)

TABLE 131 FOOD SAFETY TESTING MARKET SIZE, BY TECHNOLOGY, 2017–2021 (USD MILLION)

TABLE 132 FOOD SAFETY TESTING MARKET SIZE, BY TECHNOLOGY, 2022–2027 (USD MILLION)

### 10.2 TRADITIONAL

#### 10.2.1 TO BE INCORPORATED INTO READY-TO-EAT FOODS

TABLE 133 TRADITIONAL FOOD SAFETY TESTING TECHNOLOGY MARKET SIZE, BY TARGET TESTED, 2017–2021 (USD MILLION)

TABLE 134 TRADITIONAL FOOD SAFETY TESTING TECHNOLOGY MARKET SIZE, BY TARGET TESTED, 2022–2027 (USD MILLION)

### 10.3 RAPID

#### 10.3.1 MITIGATION OF HUMAN ERRORS VIA RAPID FOOD TESTING

TABLE 135 RAPID FOOD SAFETY TESTING TECHNOLOGY MARKET SIZE, BY TARGET TESTED, 2017–2021 (USD MILLION)

TABLE 136 RAPID FOOD SAFETY TESTING TECHNOLOGY MARKET SIZE, BY TARGET TESTED, 2022–2027 (USD MILLION)

TABLE 137 RAPID FOOD SAFETY TESTING TECHNOLOGY MARKET SIZE, BY SUBSEGMENT, 2017–2021 (USD MILLION)

TABLE 138 RAPID FOOD SAFETY TESTING TECHNOLOGY MARKET SIZE, BY SUBSEGMENT, 2022–2027 (USD MILLION)

#### 10.3.2 CONVENIENCE-BASED

10.3.2.1 Helps in identifying microorganisms based on their biochemical responses

TABLE 139 CONVENIENCE-BASED: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2017–2021 (USD MILLION)

TABLE 140 CONVENIENCE-BASED: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2022–2027 (USD MILLION)

#### 10.3.3 POLYMERASE CHAIN REACTION (PCR)

10.3.3.1 Flexibility of PCR systems allows for several pathogens to be assayed in single run

TABLE 141 PCR BASED: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2017–2021 (USD MILLION)

TABLE 142 PCR BASED: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2022–2027 (USD MILLION)

#### 10.3.4 IMMUNOASSAY

10.3.4.1 ELISA—Powerful method for detecting and quantifying specific proteins in complex mixture

TABLE 143 IMMUNOASSAY: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2017–2021 (USD MILLION)

TABLE 144 IMMUNOASSAY: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2022–2027 (USD MILLION)

#### 10.3.5 CHROMATOGRAPHY & SPECTROMETRY

10.3.5.1 Inductively Coupled Plasma (ICP)— Major advancement in mass spectrometry

TABLE 145 CHROMATOGRAPHY & SPECTROMETRY: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2017–2021 (USD MILLION)

TABLE 146 CHROMATOGRAPHY & SPECTROMETRY: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2022–2027 (USD MILLION)

## 11 FOOD SAFETY TESTING MARKET, BY REGION

### 11.1 INTRODUCTION

TABLE 147 FOOD SAFETY TESTING MARKET SIZE, BY REGION, 2017–2021 (USD MILLION)

TABLE 148 FOOD SAFETY TESTING MARKET SIZE, BY REGION, 2022–2027 (USD MILLION)

FIGURE 66 CHINA TO GROW AT HIGHEST RATE IN FOOD SAFETY TESTING MARKET, 2022–2027

### 11.2 NORTH AMERICA

TABLE 149 NORTH AMERICA: FOOD SAFETY TESTING MARKET SIZE, BY COUNTRY, 2017–2021 (USD MILLION)

TABLE 150 NORTH AMERICA: FOOD SAFETY TESTING MARKET SIZE, BY COUNTRY, 2022–2027(USD MILLION)

TABLE 151 NORTH AMERICA: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2017–2021 (USD MILLION)

TABLE 152 NORTH AMERICA: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2022–2027 (USD MILLION)

TABLE 153 NORTH AMERICA: FOOD SAFETY TESTING MARKET SIZE FOR PATHOGENS, BY COUNTRY 2017–2021 (USD MILLION)

TABLE 154 NORTH AMERICA: FOOD SAFETY TESTING MARKET SIZE FOR PATHOGENS, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 155 NORTH AMERICA: FOOD SAFETY TESTING MARKET SIZE FOR GMOS, BY COUNTRY 2017–2021 (USD MILLION)

TABLE 156 NORTH AMERICA: FOOD SAFETY TESTING MARKET SIZE FOR GMOS,

BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 157 NORTH AMERICA: FOOD SAFETY TESTING MARKET SIZE FOR PESTICIDES, BY COUNTRY, 2017–2021 (USD MILLION)

TABLE 158 NORTH AMERICA: FOOD SAFETY TESTING MARKET SIZE FOR PESTICIDES, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 159 NORTH AMERICA: FOOD SAFETY TESTING MARKET SIZE FOR MYCOTOXINS, BY COUNTRY, 2017–2021 (USD MILLION)

TABLE 160 NORTH AMERICA: FOOD SAFETY TESTING MARKET SIZE FOR MYCOTOXINS, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 161 NORTH AMERICA: FOOD SAFETY TESTING MARKET SIZE FOR ALLERGENS, BY COUNTRY, 2017–2021 (USD MILLION)

TABLE 162 NORTH AMERICA: FOOD SAFETY TESTING MARKET SIZE FOR ALLERGENS, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 163 NORTH AMERICA: FOOD SAFETY TESTING MARKET SIZE FOR HEAVY METALS, BY COUNTRY, 2017–2021 (USD MILLION)

TABLE 164 NORTH AMERICA: FOOD SAFETY TESTING MARKET SIZE FOR HEAVY METALS, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 165 NORTH AMERICA: FOOD SAFETY TESTING MARKET SIZE FOR OTHER CONTAMINANTS, BY COUNTRY, 2017–2021 (USD MILLION)

TABLE 166 NORTH AMERICA: FOOD SAFETY TESTING MARKET SIZE FOR OTHER CONTAMINANTS, BY COUNTRY/REGION, 2022–2027 (USD MILLION)

#### 11.2.1 US

11.2.1.1 Food recall by USDA owing to possibility of contamination has gained attention

FIGURE 67 US: PATHOGEN INCIDENCE PER 100,000 POPULATION, INFECTION BY YEAR, 1996–2020

FIGURE 68 NUMBER OF PATHOGEN/TOXIN VIOLATIONS IN US FOOD IMPORTS, 2002 TO 2019

TABLE 167 ESTIMATED EFFECTS OF FOODBORNE AGENTS IN THE US (2016)

TABLE 168 US: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2017–2021 (USD MILLION)

TABLE 169 US: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2022–2027(USD MILLION)

#### 11.2.2 CANADA

11.2.2.1 Regulates food safety with high priority while exporting goods

TABLE 170 CANADA: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2017–2021 (USD MILLION)

TABLE 171 CANADA: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2022–2027(USD MILLION)



### 11.2.3 MEXICO

#### 11.2.3.1 Increasing incidences of foodborne diseases

TABLE 172 MEXICO: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2017–2021 (USD MILLION)

TABLE 173 MEXICO: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2022–2027(USD MILLION)

### 11.3 EUROPE

FIGURE 69 EUROPE: FOOD SAFETY TESTING MARKET SNAPSHOT, 2021

TABLE 174 EUROPE: FOOD SAFETY TESTING MARKET SIZE, BY COUNTRY, 2017–2021 (USD MILLION)

TABLE 175 EUROPE: FOOD SAFETY TESTING MARKET SIZE, BY COUNTRY, 2022–2027(USD MILLION)

TABLE 176 EUROPE: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2017–2021 (USD MILLION)

TABLE 177 EUROPE: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2022–2027 (USD MILLION)

TABLE 178 EUROPE: FOOD SAFETY TESTING MARKET SIZE FOR PATHOGENS, BY COUNTRY, 2017–2021 (USD MILLION)

TABLE 179 EUROPE: FOOD SAFETY TESTING MARKET SIZE FOR PATHOGENS, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 180 EUROPE: FOOD SAFETY TESTING MARKET SIZE FOR GMOS, BY COUNTRY, 2017–2021 (USD MILLION)

TABLE 181 EUROPE: FOOD SAFETY TESTING MARKET SIZE FOR GMOS, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 182 EUROPE: FOOD SAFETY TESTING MARKET SIZE FOR PESTICIDES, BY COUNTRY, 2017–2021 (USD MILLION)

TABLE 183 EUROPE: FOOD SAFETY TESTING MARKET SIZE FOR PESTICIDES, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 184 EUROPE: FOOD SAFETY TESTING MARKET SIZE FOR MYCOTOXINS, BY COUNTRY, 2017–2021 (USD MILLION)

TABLE 185 EUROPE: FOOD SAFETY TESTING MARKET SIZE FOR MYCOTOXINS, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 186 EUROPE: FOOD SAFETY TESTING MARKET SIZE FOR ALLERGENS, BY COUNTRY, 2017–2021 (USD MILLION)

TABLE 187 EUROPE: FOOD SAFETY TESTING MARKET SIZE FOR ALLERGENS, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 188 EUROPE: FOOD SAFETY TESTING MARKET SIZE FOR HEAVY METALS, BY COUNTRY, 2017–2021 (USD MILLION)

TABLE 189 EUROPE: FOOD SAFETY TESTING MARKET SIZE FOR HEAVY

METALS, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 190 EUROPE: FOOD SAFETY TESTING MARKET SIZE FOR OTHER CONTAMINANTS, BY COUNTRY, 2017–2021 (USD MILLION)

TABLE 191 EUROPE: FOOD SAFETY TESTING MARKET SIZE FOR OTHER CONTAMINANTS, BY COUNTRY, 2022–2027 (USD MILLION)

#### 11.3.1 GERMANY

11.3.1.1 Highly stringent regulation on following EU norms on food safety

TABLE 192 GERMANY: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2017–2021 (USD MILLION)

TABLE 193 GERMANY: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2022–2027 (USD MILLION)

#### 11.3.2 UK

11.3.2.1 Growing number of food poisoning incidences

TABLE 194 UK: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2017–2021 (USD MILLION)

TABLE 195 UK: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2022–2027 (USD MILLION)

#### 11.3.3 FRANCE

11.3.3.1 Large number of foodborne outbreaks promote food safety testing

TABLE 196 FRANCE: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2017–2021 (USD MILLION)

TABLE 197 FRANCE: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2022–2027 (USD MILLION)

#### 11.3.4 ITALY

11.3.4.1 Stringent food safety regulations implemented by EU

TABLE 198 ITALY: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2017–2021 (USD MILLION)

TABLE 199 ITALY: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2022–2027 (USD MILLION)

#### 11.3.5 POLAND

11.3.5.1 Increasing trade resulting in growing requirement for food safety testing

TABLE 200 POLAND: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2017–2021 (USD MILLION)

TABLE 201 POLAND: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2022–2027 (USD MILLION)

#### 11.3.6 REST OF EUROPE

TABLE 202 REST OF EUROPE: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2017–2021 (USD MILLION)

TABLE 203 REST OF EUROPE: FOOD SAFETY TESTING MARKET SIZE, BY



TARGET TESTED, 2022–2027 (USD MILLION)

11.4 ASIA PACIFIC

FIGURE 70 ASIA PACIFIC: FOOD SAFETY TESTING MARKET SNAPSHOT

TABLE 204 ASIA PACIFIC: FOOD SAFETY TESTING MARKET SIZE, BY COUNTRY, 2017–2021 (USD MILLION)

TABLE 205 ASIA PACIFIC: FOOD SAFETY TESTING MARKET SIZE, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 206 ASIA PACIFIC: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2017–2021 (USD MILLION)

TABLE 207 ASIA PACIFIC: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2022–2027 (USD MILLION)

TABLE 208 ASIA PACIFIC: FOOD SAFETY TESTING MARKET SIZE FOR PATHOGENS, BY COUNTRY, 2017–2021 (USD MILLION)

TABLE 209 ASIA PACIFIC: FOOD SAFETY TESTING MARKET SIZE FOR PATHOGENS, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 210 ASIA PACIFIC: FOOD SAFETY TESTING MARKET SIZE FOR GMOS, BY COUNTRY, 2017–2021 (USD MILLION)

TABLE 211 ASIA PACIFIC: FOOD SAFETY TESTING MARKET SIZE FOR GMOS, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 212 ASIA PACIFIC: FOOD SAFETY TESTING MARKET SIZE FOR PESTICIDES, BY COUNTRY, 2017–2021 (USD MILLION)

TABLE 213 ASIA PACIFIC: FOOD SAFETY TESTING MARKET SIZE FOR PESTICIDES, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 214 ASIA PACIFIC: FOOD SAFETY TESTING MARKET SIZE FOR MYCOTOXINS, BY COUNTRY, 2017–2021 (USD MILLION)

TABLE 215 ASIA PACIFIC: FOOD SAFETY TESTING MARKET SIZE FOR MYCOTOXINS, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 216 ASIA PACIFIC: FOOD SAFETY TESTING MARKET SIZE FOR ALLERGENS, BY COUNTRY, 2017–2021 (USD MILLION)

TABLE 217 ASIA PACIFIC: FOOD SAFETY TESTING MARKET SIZE FOR ALLERGENS, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 218 ASIA PACIFIC: FOOD SAFETY TESTING MARKET SIZE FOR HEAVY METALS, BY COUNTRY, 2017–2021 (USD MILLION)

TABLE 219 ASIA PACIFIC: FOOD SAFETY TESTING MARKET SIZE FOR HEAVY METALS, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 220 ASIA PACIFIC: FOOD SAFETY TESTING MARKET SIZE FOR OTHER CONTAMINANTS, BY COUNTRY, 2017–2021 (USD MILLION)

TABLE 221 ASIA PACIFIC: FOOD SAFETY TESTING MARKET SIZE FOR OTHER CONTAMINANTS, BY COUNTRY, 2022–2027 (USD MILLION)

#### 11.4.1 JAPAN

11.4.1.1 Standard food testing processes to meet domestic and international food safety standards

TABLE 222 JAPAN: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2017–2021 (USD MILLION)

TABLE 223 JAPAN: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2022–2027 (USD MILLION)

#### 11.4.2 CHINA

11.4.2.1 Increase in number of food safety regulations

TABLE 224 CHINA: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2017–2021 (USD MILLION)

TABLE 225 CHINA: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2022–2027 (USD MILLION)

#### 11.4.3 INDIA

11.4.3.1 Food laboratories implementing new technologies and modern analytical instruments

TABLE 226 INDIA: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2017–2021 (USD MILLION)

TABLE 227 INDIA: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2022–2027 (USD MILLION)

#### 11.4.4 AUSTRALIA & NEW ZEALAND

11.4.4.1 Export of various agricultural products requires stringent food safety programs

TABLE 228 AUSTRALIA & NEW ZEALAND: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2017–2021 (USD MILLION)

TABLE 229 AUSTRALIA & NEW ZEALAND: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2022–2027 (USD MILLION)

#### 11.4.5 REST OF ASIA PACIFIC

TABLE 230 REST OF ASIA PACIFIC: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2017–2021 (USD MILLION)

TABLE 231 REST OF ASIA PACIFIC: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2022–2027 (USD MILLION)

#### 11.5 REST OF THE WORLD (ROW)

TABLE 232 ROW: FOOD SAFETY TESTING MARKET SIZE, BY REGION, 2017–2021 (USD MILLION)

TABLE 233 ROW: FOOD SAFETY TESTING MARKET SIZE, BY REGION, 2022–2027 (USD MILLION)

TABLE 234 ROW: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2017–2021 (USD MILLION)

TABLE 235 ROW: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2022–2027 (USD MILLION)

TABLE 236 ROW: FOOD SAFETY TESTING MARKET SIZE FOR PATHOGENS, BY REGION, 2017–2021 (USD MILLION)

TABLE 237 ROW: FOOD SAFETY TESTING MARKET SIZE FOR PATHOGENS, BY REGION, 2022–2027 (USD MILLION)

TABLE 238 ROW: FOOD SAFETY TESTING MARKET SIZE FOR GMOS, BY REGION, 2017–2021 (USD MILLION)

TABLE 239 ROW: FOOD SAFETY TESTING MARKET SIZE FOR GMOS, BY REGION, 2022–2027 (USD MILLION)

TABLE 240 ROW: FOOD SAFETY TESTING MARKET SIZE FOR PESTICIDES, BY REGION, 2017–2021 (USD MILLION)

TABLE 241 ROW: FOOD SAFETY TESTING MARKET SIZE FOR PESTICIDES, BY REGION, 2022–2027 (USD MILLION)

TABLE 242 ROW: FOOD SAFETY TESTING MARKET SIZE FOR MYCOTOXINS, BY REGION, 2017–2021 (USD MILLION)

TABLE 243 ROW: FOOD SAFETY TESTING MARKET SIZE FOR MYCOTOXINS, BY REGION, 2022–2027 (USD MILLION)

TABLE 244 ROW: FOOD SAFETY TESTING MARKET SIZE FOR ALLERGENS, BY REGION, 2017–2021 (USD MILLION)

TABLE 245 ROW: FOOD SAFETY TESTING MARKET SIZE FOR ALLERGENS, BY REGION, 2022–2027 (USD MILLION)

TABLE 246 ROW: FOOD SAFETY TESTING MARKET SIZE FOR HEAVY METALS, BY REGION, 2017–2021 (USD MILLION)

TABLE 247 ROW: FOOD SAFETY TESTING MARKET SIZE FOR HEAVY METALS, BY REGION, 2022–2027 (USD MILLION)

TABLE 248 ROW: FOOD SAFETY TESTING MARKET SIZE FOR OTHERS, BY REGION, 2017–2021 (USD MILLION)

TABLE 249 ROW: FOOD SAFETY TESTING MARKET SIZE FOR OTHERS, BY REGION, 2022–2027 (USD MILLION)

#### 11.5.1 SOUTH AMERICA

##### 11.5.1.1 Technology upgrade in food safety testing services

TABLE 250 SOUTH AMERICA: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2017–2021 (USD MILLION)

TABLE 251 SOUTH AMERICA: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2022–2027 (USD MILLION)

#### 11.5.2 AFRICA

11.5.2.1 Emerging industrial platform, foodborne outbreaks, and growth in demand for food safety to follow international standards

TABLE 252 AFRICA: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2017–2021 (USD MILLION)

TABLE 253 AFRICA: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2022–2027 (USD MILLION)

### 11.5.3 MIDDLE EAST

#### 11.5.3.1 Driven by food imports from other countries

TABLE 254 MIDDLE EAST: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2017–2021 (USD MILLION)

TABLE 255 MIDDLE EAST: FOOD SAFETY TESTING MARKET SIZE, BY TARGET TESTED, 2022–2027 (USD MILLION)

## 12 COMPETITIVE LANDSCAPE

### 12.1 OVERVIEW

### 12.2 KEY PLAYERS' STRATEGIES

TABLE 256 OVERVIEW OF STRATEGIES ADOPTED BY KEY PLAYERS

### 12.3 MARKET SHARE ANALYSIS, 2021

TABLE 257 FOOD SAFETY TESTING: MARKET SHARE ANALYSIS

### 12.4 SEGMENT REVENUE ANALYSIS OF KEY PLAYERS, 2017–2021

FIGURE 71 SEGMENTAL REVENUE ANALYSIS OF KEY MARKET PLAYERS, 2017–2021 (USD BILLION)

### 12.5 COMPANY EVALUATION QUADRANT (KEY PLAYERS)

#### 12.5.1 STARS

#### 12.5.2 EMERGING LEADERS

#### 12.5.3 PERVASIVE PLAYERS

#### 12.5.4 PARTICIPANTS

FIGURE 72 FOOD SAFETY TESTING MARKET: COMPANY EVALUATION QUADRANT OF KEY PLAYERS, 2021

### 12.6 SERVICE FOOTPRINT

TABLE 258 COMPANY, BY TARGET TESTED FOOTPRINT

TABLE 259 COMPANY, BY TECHNOLOGY FOOTPRINT

TABLE 260 COMPANY, BY REGION FOOTPRINT

TABLE 261 OVERALL FOOTPRINT

### 12.7 START-UP/SME EVALUATION QUADRANT (OTHER PLAYERS)

#### 12.7.1 PROGRESSIVE COMPANIES

#### 12.7.2 STARTING BLOCKS

#### 12.7.3 RESPONSIVE COMPANIES

#### 12.7.4 DYNAMIC COMPANIES

FIGURE 73 FOOD SAFETY TESTING MARKET: COMPANY EVALUATION

## QUADRANT OF START-UPS/SMES, 2021

### 12.7.5 COMPETITIVE BENCHMARKING

TABLE 262 FOOD SAFETY TESTING MARKET: DETAILED LIST OF KEY START-UPS/SMES

TABLE 263 FOOD SAFETY TESTING MARKET: COMPETITIVE BENCHMARKING OF KEY START-UPS/SMES

### 12.8 COMPETITIVE SCENARIO AND TRENDS

#### 12.8.1 SERVICE LAUNCHES

TABLE 264 FOOD SAFETY TESTING MARKET: SERVICE LAUNCHES, MARCH 2019–MARCH 2022

#### 12.8.2 DEALS

TABLE 265 FOOD SAFETY TESTING MARKET: DEALS, JANUARY 2018–AUGUST 2022

#### 12.8.3 OTHERS

TABLE 266 FOOD SAFETY TESTING MARKET: OTHERS, MARCH 2018–JUNE 2022

## 13 COMPANY PROFILES

### 13.1 KEY PLAYERS

(Business Overview, Products/Services/Solutions Offered, MnM View, Key Strengths and Right to Win, Strategic Choices Made, Weaknesses and Competitive Threats, Recent Developments)\*

#### 13.1.1 EUROFINS SCIENTIFIC

TABLE 267 EUROFINS SCIENTIFIC: COMPANY OVERVIEW

FIGURE 74 EUROFINS SCIENTIFIC: COMPANY SNAPSHOT

TABLE 268 EUROFINS SCIENTIFIC: SERVICES OFFERED

TABLE 269 EUROFINS SCIENTIFIC: SERVICE LAUNCHES

TABLE 270 EUROFINS SCIENTIFIC: DEALS

#### 13.1.2 INTERTEK GROUP PLC

TABLE 271 INTERTEK GROUP PLC: COMPANY OVERVIEW

FIGURE 75 INTERTEK GROUP PLC: COMPANY SNAPSHOT

TABLE 272 INTERTEK GROUP PLC: SERVICES OFFERED

TABLE 273 INTERTEK GROUP PLC: DEALS

#### 13.1.3 BUREAU VERITAS

TABLE 274 BUREAU VERITAS: COMPANY OVERVIEW

FIGURE 76 BUREAU VERITAS: COMPANY SNAPSHOT

TABLE 275 BUREAU VERITAS: SERVICES OFFERED

TABLE 276 BUREAU VERITAS: DEALS

TABLE 277 BUREAU VERITAS: OTHERS

#### 13.1.4 ALS LIMITED

TABLE 278 ALS LIMITED: COMPANY OVERVIEW

FIGURE 77 ALS LIMITED: COMPANY SNAPSHOT

TABLE 279 ALS LIMITED: SERVICES OFFERED

TABLE 280 ALS LIMITED: DEALS

#### 13.1.5 SGS SA

TABLE 281 SGS SA: COMPANY OVERVIEW

FIGURE 78 SGS SA: COMPANY SNAPSHOT

TABLE 282 SGS SA: SERVICES OFFERED

TABLE 283 SGS SA: DEALS

TABLE 284 SGS SA: OTHERS

#### 13.1.6 ASUREQUALITY

TABLE 285 ASUREQUALITY: COMPANY OVERVIEW

FIGURE 79 ASUREQUALITY: COMPANY SNAPSHOT

TABLE 286 ASUREQUALITY: SERVICES OFFERED

TABLE 287 ASUREQUALITY: DEALS

#### 13.1.7 T?V S?D

TABLE 288 T?V S?D: COMPANY OVERVIEW

FIGURE 80 T?V S?D: COMPANY SNAPSHOT

TABLE 289 T?V S?D: SERVICES OFFERED

#### 13.1.8 T?V NORD GROUP

TABLE 290 T?V NORD GROUP: COMPANY OVERVIEW

FIGURE 81 T?V NORD GROUP: COMPANY SNAPSHOT

TABLE 291 T?V NORD GROUP: SERVICES OFFERED

TABLE 292 T?V NORD GROUP: SERVICE LAUNCHES

TABLE 293 T?V NORD GROUP: OTHERS

#### 13.1.9 MICROBAC LABORATORIES, INC.

TABLE 294 MICROBAC LABORATORIES, INC.: COMPANY OVERVIEW

TABLE 295 MICROBAC LABORATORIES, INC.: SERVICES OFFERED

TABLE 296 MICROBAC LABORATORIES, INC.: OTHERS

#### 13.1.10 ROMER LABS

TABLE 297 ROMER LABS: COMPANY OVERVIEW

TABLE 298 ROMER LABS: SERVICES OFFERED

TABLE 299 ROMER LABS: SERVICE LAUNCHES

TABLE 300 ROMER LABS: OTHERS

#### 13.1.11 SYMBIO LABORATORIES

TABLE 301 SYMBIO LABORATORIES: COMPANY OVERVIEW

TABLE 302 SYMBIO LABORATORIES: SERVICES OFFERED

TABLE 303 SYMBIO LABORATORIES: DEALS



#### 13.1.12 NEOGEN CORPORATION

TABLE 304 NEOGEN CORPORATION: COMPANY OVERVIEW

FIGURE 82 NEOGEN CORPORATION: COMPANY SNAPSHOT

TABLE 305 NEOGEN CORPORATION: SERVICES OFFERED

TABLE 306 NEOGEN CORPORATION: SERVICE LAUNCHES

TABLE 307 NEOGEN CORPORATION: DEALS

#### 13.1.13 M?RIEUX NUTRISCIENCES CORPORATION

TABLE 308 M?RIEUX NUTRISCIENCES CORPORATION: COMPANY OVERVIEW

TABLE 309 M?RIEUX NUTRISCIENCES CORPORATION: SERVICES OFFERED

TABLE 310 M?RIEUX NUTRISCIENCES CORPORATION: DEALS

TABLE 311 M?RIEUX NUTRISCIENCES CORPORATION: OTHERS

#### 13.1.14 R J HILL LABORATORIES LIMITED

TABLE 312 R J HILL LABORATORIES LIMITED: COMPANY OVERVIEW

TABLE 313 R J HILL LABORATORIES LIMITED: SERVICES OFFERED

TABLE 314 R J HILL LABORATORIES LIMITED: SERVICE LAUNCHES

TABLE 315 R J HILL LABORATORIES LIMITED: OTHERS

#### 13.1.15 FOODCHAIN ID

TABLE 316 FOODCHAIN ID: COMPANY OVERVIEW

TABLE 317 FOODCHAIN ID: SERVICES OFFERED

TABLE 318 FOODCHAIN ID: DEALS

#### 13.2 START-UPS/SMES/OTHER PLAYERS

##### 13.2.1 IFP INSTITUT F?R PRODUKTQUALIT?T GMBH

TABLE 319 IFP INSTITUT F?R PRODUKTQUALIT?T GMBH: COMPANY OVERVIEW

TABLE 320 IFP INSTITUT F?R PRODUKTQUALIT?T GMBH: SERVICES OFFERED

TABLE 321 IFP INSTITUT F?R PRODUKTQUALIT?T GMBH: OTHERS

##### 13.2.2 NOVA BIOLOGICALS

TABLE 322 NOVA BIOLOGICALS: COMPANY OVERVIEW

TABLE 323 NOVA BIOLOGICALS: SERVICES OFFERED

TABLE 324 NOVA BIOLOGICALS: OTHERS

##### 13.2.3 CERTIFIED LABORATORIES

TABLE 325 CERTIFIED LABORATORIES: COMPANY OVERVIEW

TABLE 326 CERTIFIED LABORATORIES: SERVICES OFFERED

TABLE 327 CERTIFIED LABORATORIES: DEALS

##### 13.2.4 AGROLAB GMBH

TABLE 328 AGROLAB GMBH: COMPANY OVERVIEW

TABLE 329 AGROLAB GMBH: SERVICES OFFERED

TABLE 330 AGROLAB GMBH: SERVICE LAUNCHES

TABLE 331 AGROLAB GMBH: OTHERS

##### 13.2.5 AGQ LABS USA

TABLE 332 AGQ LABS USA: COMPANY OVERVIEW

TABLE 333 AGQ LABS USA: SERVICES OFFERED

TABLE 334 AGQ LABS USA: DEALS

\*Business Overview, Products/Services/Solutions Offered, MnM View, Key Strengths and Right to Win, Strategic Choices Made, Weaknesses and Competitive Threats, Recent Developments might not be captured in case of unlisted companies.

13.2.6 CAMPDEN BRI

13.2.7 MITRA SK PRIVATE LIMITED

13.2.8 ELEMENT MATERIALS TECHNOLOGY

13.2.9 DAANE LABS

13.2.10 COTECNA INSPECTION SA

## **14 ADJACENT AND RELATED MARKETS**

14.1 INTRODUCTION

TABLE 335 ADJACENT MARKETS TO THE FOOD SAFETY TESTING MARKET

14.2 LIMITATIONS

14.3 FOOD AUTHENTICITY TESTING MARKET

14.3.1 MARKET DEFINITION

14.3.2 MARKET OVERVIEW

TABLE 336 FOOD AUTHENTICITY TESTING MARKET SIZE, BY FOOD TESTED, 2014–2022 (USD MILLION)

14.4 GM FOOD SAFETY TESTING MARKET

14.4.1 MARKET DEFINITION

14.4.2 MARKET OVERVIEW

TABLE 337 GM FOOD SAFETY TESTING MARKET SIZE, BY FOOD TESTED, 2015–2022 (USD MILLION)

## **15 APPENDIX**

15.1 DISCUSSION GUIDE

15.2 KNOWLEDGE STORE: MARKET SAND MARKETS' SUBSCRIPTION PORTAL

15.3 AVAILABLE CUSTOMIZATIONS

15.3.1 SEGMENT ANALYSIS

15.3.1.1 Geographic analysis

15.3.1.2 Company information

15.4 RELATED REPORTS

15.5 AUTHOR DETAILS



## About

The report "Food Safety Testing Market by Contaminant (Pathogen, GMO, Toxin, Pesticide, Others), Technology (Traditional & Rapid), Food type (Meat & Poultry, Dairy, Fruit & Vegetable, Convenience food, Others) & Region - Global Trends & Forecast to 2019", defines and segments the global market on the basis of various contaminants, food types, technologies, and regions, with analyses and projections of the market size of each of these segments in terms of value (\$million) and volume (million tests).

The food safety testing market is projected to reach \$15,040.7 million and a volume of 1,154.8 million tests by 2019.

Food safety systems strive to minimize contamination in finished food products and also in the environment where the food is produced. For certain types of products, particularly ready-to-eat products, it is critical that environmental pathogens be easily controlled through environmental pathogen monitoring so that they do not contaminate the product.

The food safety testing market is well-established in Europe and North America. Emerging markets such as Latin America, Africa, and Asia-Pacific show a potential for growth due to increase in international food trade, consumer awareness of food contamination, outbreaks of food poisoning, and unexplored potential in emerging countries; China and India are expected to create a huge opportunity for the food safety testing market.

North America was the largest market for food safety testing, while Asia-Pacific is projected to be the fastest-growing market during the review period. Food safety regulations are increasing food safety testing volumes in both developed and developing countries. Implementation of Food Safety Modernization Act (FSMA) in the U. S. and an extended food safety action plan implemented in China are two examples presenting attractive opportunities for driving the growth of the food safety testing market.

The food safety testing market for pathogen commanded a majority share in 2013. Increasing foodborne diseases due to Salmonella are also attributed to the growth of the food safety testing market for pathogens. This is mostly seen due to poor handling during food production. To ensure the safety of food products, the food safety management system is implemented with good manufacturing and handling practices.

Increasing food contamination and the outbreak of shiga toxin-producing E. coli (STEC) poisoning have resulted in an increase in the frequency of E. coli testing in the global food testing market.

## I would like to order

Product name: Food Safety Testing Market by Target Tested, Technology (Traditional and Rapid), Food Tested (Meat, Poultry, Seafood, Dairy, Processed Foods, Fruits & Vegetables, and Cereals & grains) and Region - Global Forecast to 2027

Product link: <https://marketpublishers.com/r/F1B3141C264EN.html>

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

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/F1B3141C264EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below

and fax the completed form to +44 20 7900 3970