

Global Food Testing Analytical Instrumentation Market Size Study by Offering (Instruments, Services, Software), Technology (Chromatography, Microscopy, Molecular Analysis, Particle Analysis, Spectroscopy), Application (Food Traceability, Ingredient Authentication, Microbial Analysis, Nutritional Analysis, Sensory Analysis, Shelf Life Determination) and Regional Forecasts 2022-2032

<https://marketpublishers.com/r/G18606C6E178EN.html>

Date: July 2024

Pages: 200

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

ID: G18606C6E178EN

Abstracts

The Global Food Testing Analytical Instrumentation Market is valued approximately at USD 15.17 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 5.30% over the forecast period 2024-2032. Food testing analytical instrumentation refers to a suite of advanced tools and technologies employed to scrutinize food products to ensure safety, quality, and compliance with regulatory standards. These instruments are indispensable for analyzing various parameters, including allergens, microbial contamination, and chemical residues. The global enforcement of stringent food safety regulations is propelling the demand for advanced testing solutions. Governments and international bodies are mandating rigorous testing regimes to safeguard public health, compelling food producers and processors to adopt state-of-the-art analytical instrumentation for contaminant testing.

Although these advanced instruments promise enhanced sensitivity and faster results, their high cost can be a barrier to adoption, particularly for small-scale manufacturers and laboratories. Technological advancements such as high-throughput screening, artificial intelligence, and machine learning for data analysis, along with the integration of IoT in laboratory equipment, are facilitating more efficient, accurate, and rapid

analysis. This ongoing innovation is crucial in addressing the challenges of food safety and quality in a dynamic market environment. The instruments for food testing encompass a wide range of devices designed to detect pathogens, allergens, pesticides, and nutritional contents. These devices are preferred based on their accuracy, reliability, sensitivity, throughput, and cost. Services in this market include consulting, training, and testing services provided to food producers and processors, with preferences shaped by the expertise of the service provider and the comprehensiveness of the service offered. Software solutions for food testing analytical instrumentation, such as LIMS, data analysis, and regulatory compliance platforms, are selected for their ease of integration, user-friendliness, scalability, and support services.

The key regions considered for the Global Food Testing Analytical Instrumentation Market study include Asia Pacific, North America, Europe, Latin America, and Middle East and Africa. North America has registered dominating position In the American region, stringent regulatory standards have significantly driven the demand for advanced analytical instrumentation. Consumer awareness regarding food quality and safety has heightened interest in technologies capable of detecting allergens and contaminants at trace levels, leading to substantial investments in high-throughput sequencing and spectrometry devices. In Europe, a comprehensive regulatory framework has spurred the adoption of advanced analytical techniques, including molecular diagnostics and traceability solutions. Asia Pacific is projected to registered fastest growth. In the APAC region, countries such as China, India, and Japan have revamped their food safety regulations, driving demand for sophisticated analytical instruments, with government initiatives focusing on improving food quality and reducing foodborne illnesses through substantial investments in research and development.

Major market players included in this report are:

Agilent Technologies, Inc.

Avantor, Inc.

Bio-Rad Laboratories, Inc.

Bruker Corporation

Carl Zeiss AG

Danaher Corporation

Eppendorf SE

Hitachi, Ltd.

Illumina, Inc.

JEOL Ltd.

Malvern Panalytical Ltd. by Spectris PLC

Mettler Toledo

Microteknik
Nikon Instruments Inc.
PerkinElmer Inc.

The detailed segments and sub-segment of the market are explained below:

Offering:
Instruments
Services
Software

Technology:
Chromatography
Microscopy
Molecular Analysis
Particle Analysis
Spectroscopy

Application:
Food Traceability
Ingredient Authentication
Microbial Analysis
Nutritional Analysis
Sensory Analysis
Shelf Life Determination

By Region:

North America
U.S.
Canada

Europe:
Germany
UK
France
Spain
Italy
Rest of Europe

Asia Pacific:

China

Japan

India

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

Mexico

Middle East and Africa

Saudi Arabia

South Africa

Rest of LAMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

Contents

CHAPTER 1. GLOBAL FOOD TESTING ANALYTICAL INSTRUMENTATION MARKET EXECUTIVE SUMMARY

- 1.1. Global Food Testing Analytical Instrumentation Market Size & Forecast (2022-2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
 - 1.3.1. By Offering
 - 1.3.2. By Technology
 - 1.3.3. By Application
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

CHAPTER 2. GLOBAL FOOD TESTING ANALYTICAL INSTRUMENTATION MARKET DEFINITION AND RESEARCH ASSUMPTIONS

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
 - 2.3.1. Inclusion & Exclusion
 - 2.3.2. Limitations
 - 2.3.3. Supply Side Analysis
 - 2.3.3.1. Availability
 - 2.3.3.2. Infrastructure
 - 2.3.3.3. Regulatory Environment
 - 2.3.3.4. Market Competition
 - 2.3.3.5. Economic Viability (Consumer's Perspective)
 - 2.3.4. Demand Side Analysis
 - 2.3.4.1. Regulatory frameworks
 - 2.3.4.2. Technological Advancements
 - 2.3.4.3. Environmental Considerations
 - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

CHAPTER 3. GLOBAL FOOD TESTING ANALYTICAL INSTRUMENTATION MARKET DYNAMICS

3.1. Market Drivers

- 3.1.1. Stringent Food Safety Regulations
- 3.1.2. Technological Advancements
- 3.1.3. Increasing Consumer Awareness

3.2. Market Challenges

- 3.2.1. High Cost of Advanced Instruments
- 3.2.2. Barrier to Small-scale Manufacturers

3.3. Market Opportunities

- 3.3.1. Integration of IoT in Laboratory Equipment
- 3.3.2. Government Initiatives and Investments

CHAPTER 4. GLOBAL FOOD TESTING ANALYTICAL INSTRUMENTATION MARKET INDUSTRY ANALYSIS

4.1. Porter's 5 Force Model

- 4.1.1. Bargaining Power of Suppliers
- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.1.6. Futuristic Approach to Porter's 5 Force Model
- 4.1.7. Porter's 5 Force Impact Analysis

4.2. PESTEL Analysis

- 4.2.1. Political
- 4.2.2. Economical
- 4.2.3. Social
- 4.2.4. Technological
- 4.2.5. Environmental
- 4.2.6. Legal

4.3. Top investment opportunity

4.4. Top winning strategies

4.5. Disruptive Trends

4.6. Industry Expert Perspective

4.7. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL FOOD TESTING ANALYTICAL INSTRUMENTATION

MARKET SIZE & FORECASTS BY OFFERING 2022-2032

5.1. Segment Dashboard

5.2. Global Food Testing Analytical Instrumentation Market: Offering Revenue Trend Analysis, 2022 & 2032 (USD Billion)

5.2.1. Instruments

5.2.2. Services

5.2.3. Software

CHAPTER 6. GLOBAL FOOD TESTING ANALYTICAL INSTRUMENTATION MARKET SIZE & FORECASTS BY TECHNOLOGY 2022-2032

6.1. Segment Dashboard

6.2. Global Food Testing Analytical Instrumentation Market: Technology Revenue Trend Analysis, 2022 & 2032 (USD Billion)

6.2.1. Chromatography

6.2.2. Microscopy

6.2.3. Molecular Analysis

6.2.4. Particle Analysis

6.2.5. Spectroscopy

CHAPTER 7. GLOBAL FOOD TESTING ANALYTICAL INSTRUMENTATION MARKET SIZE & FORECASTS BY APPLICATION 2022-2032

7.1. Segment Dashboard

7.2. Global Food Testing Analytical Instrumentation Market: Application Revenue Trend Analysis, 2022 & 2032 (USD Billion)

7.2.1. Food Traceability

7.2.2. Ingredient Authentication

7.2.3. Microbial Analysis

7.2.4. Nutritional Analysis

7.2.5. Sensory Analysis

7.2.6. Shelf Life Determination

CHAPTER 8. GLOBAL FOOD TESTING ANALYTICAL INSTRUMENTATION MARKET SIZE & FORECASTS BY REGION 2022-2032

8.1. North America Food Testing Analytical Instrumentation Market

8.1.1. U.S. Food Testing Analytical Instrumentation Market

- 8.1.1.1. Offering breakdown size & forecasts, 2022-2032
- 8.1.1.2. Technology breakdown size & forecasts, 2022-2032
- 8.1.1.3. Application breakdown size & forecasts, 2022-2032
- 8.1.2. Canada Food Testing Analytical Instrumentation Market
- 8.1.3. Mexico Food Testing Analytical Instrumentation Market
- 8.2. Europe Food Testing Analytical Instrumentation Market
 - 8.2.1. Germany Food Testing Analytical Instrumentation Market
 - 8.2.2. UK Food Testing Analytical Instrumentation Market
 - 8.2.3. France Food Testing Analytical Instrumentation Market
 - 8.2.4. Spain Food Testing Analytical Instrumentation Market
 - 8.2.5. Italy Food Testing Analytical Instrumentation Market
 - 8.2.6. Rest of Europe Food Testing Analytical Instrumentation Market
- 8.3. Asia-Pacific Food Testing Analytical Instrumentation Market
 - 8.3.1. China Food Testing Analytical Instrumentation Market
 - 8.3.2. Japan Food Testing Analytical Instrumentation Market
 - 8.3.3. India Food Testing Analytical Instrumentation Market
 - 8.3.4. South Korea Food Testing Analytical Instrumentation Market
 - 8.3.5. Australia Food Testing Analytical Instrumentation Market
 - 8.3.6. Rest of Asia-Pacific Food Testing Analytical Instrumentation Market
- 8.4. LAMEA Food Testing Analytical Instrumentation Market
 - 8.4.1. Brazil Food Testing Analytical Instrumentation Market
 - 8.4.2. United Arab Emirates Food Testing Analytical Instrumentation Market
 - 8.4.3. Saudi Arabia Food Testing Analytical Instrumentation Market
 - 8.4.4. South Africa Food Testing Analytical Instrumentation Market
 - 8.4.5. Rest of LAMEA Food Testing Analytical Instrumentation Market

CHAPTER 9. COMPETITIVE INTELLIGENCE

- 9.1. Key Company SWOT Analysis
 - 9.1.1. Company
 - 9.1.2. Company
 - 9.1.3. Company
- 9.2. Top Market Strategies
- 9.3. Company Profiles
 - 9.3.1. Agilent Technologies, Inc.
 - 9.3.2. Avantor, Inc.
 - 9.3.3. Bio-Rad Laboratories, Inc.
 - 9.3.4. Bruker Corporation
 - 9.3.5. Carl Zeiss AG

- 9.3.6 Danaher Corporation
- 9.3.7 Eppendorf SE
- 9.3.8 Hitachi, Ltd.
- 9.3.9 Illumina, Inc.
- 9.3.10 JEOL Ltd.
- 9.3.11 Malvern Panalytical Ltd. by Spectris PLC
- 9.3.12 Mettler Toledo
- 9.3.13 Microteknik
- 9.3.14 Nikon Instruments Inc.
- 9.3.15 PerkinElmer Inc.

CHAPTER 10. RESEARCH PROCESS

- 10.1. Research Process
 - 10.1.1. Data Mining
 - 10.1.2. Analysis
 - 10.1.3. Market Estimation
 - 10.1.4. Validation
 - 10.1.5. Publishing
- 10.2. Research Attributes

List Of Tables

LIST OF TABLES

- TABLE 1. Global Food Testing Analytical Instrumentation market, report scope
- TABLE 2. Global Food Testing Analytical Instrumentation market estimates & forecasts by Region 2022-2032 (USD Billion)
- TABLE 3. Global Food Testing Analytical Instrumentation market estimates & forecasts by Offering 2022-2032 (USD Billion)
- TABLE 4. Global Food Testing Analytical Instrumentation market estimates & forecasts by Technology 2022-2032 (USD Billion)
- TABLE 5. Global Food Testing Analytical Instrumentation market estimates & forecasts by Application 2022-2032 (USD Billion)
- TABLE 6. Global Food Testing Analytical Instrumentation market by segment, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 7. Global Food Testing Analytical Instrumentation market by region, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 8. Global Food Testing Analytical Instrumentation market by segment, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 9. Global Food Testing Analytical Instrumentation market by region, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 10. Global Food Testing Analytical Instrumentation market by segment, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 11. Global Food Testing Analytical Instrumentation market by region, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 12. Global Food Testing Analytical Instrumentation market by segment, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 13. Global Food Testing Analytical Instrumentation market by region, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 14. Global Food Testing Analytical Instrumentation market by segment, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 15. U.S. Food Testing Analytical Instrumentation market estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 16. U.S. Food Testing Analytical Instrumentation market estimates & forecasts by segment 2022-2032 (USD Billion)
- TABLE 17. U.S. Food Testing Analytical Instrumentation market estimates & forecasts by segment 2022-2032 (USD Billion)
- TABLE 18. Canada Food Testing Analytical Instrumentation market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 19. Canada Food Testing Analytical Instrumentation market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 20. Canada Food Testing Analytical Instrumentation market estimates & forecasts by segment 2022-2032 (USD Billion)

.....

This list is not complete, final report does contain more than 100 tables. The list may be updated in the final deliverable.

List Of Figures

LIST OF FIGURES

- FIG 1. Global Food Testing Analytical Instrumentation market, research methodology
- FIG 2. Global Food Testing Analytical Instrumentation market, market estimation techniques
- FIG 3. Global market size estimates & forecast methods.
- FIG 4. Global Food Testing Analytical Instrumentation market, key trends 2023
- FIG 5. Global Food Testing Analytical Instrumentation market, growth prospects 2022-2032
- FIG 6. Global Food Testing Analytical Instrumentation market, porters 5 force model
- FIG 7. Global Food Testing Analytical Instrumentation market, PESTEL analysis
- FIG 8. Global Food Testing Analytical Instrumentation market, value chain analysis
- FIG 9. Global Food Testing Analytical Instrumentation market by segment, 2022 & 2032 (USD Billion)
- FIG 10. Global Food Testing Analytical Instrumentation market by segment, 2022 & 2032 (USD Billion)
- FIG 11. Global Food Testing Analytical Instrumentation market by segment, 2022 & 2032 (USD Billion)
- FIG 12. Global Food Testing Analytical Instrumentation market by segment, 2022 & 2032 (USD Billion)
- FIG 13. Global Food Testing Analytical Instrumentation market by segment, 2022 & 2032 (USD Billion)
- FIG 14. Global Food Testing Analytical Instrumentation market, regional snapshot 2022 & 2032
- FIG 15. North America Food Testing Analytical Instrumentation market 2022 & 2032 (USD Billion)
- FIG 16. Europe Food Testing Analytical Instrumentation market 2022 & 2032 (USD Billion)
- FIG 17. Asia pacific Food Testing Analytical Instrumentation market 2022 & 2032 (USD Billion)
- FIG 18. Latin America Food Testing Analytical Instrumentation market 2022 & 2032 (USD Billion)
- FIG 19. Middle East & Africa Food Testing Analytical Instrumentation market 2022 & 2032 (USD Billion)
- FIG 20. Global Food Testing Analytical Instrumentation market, company market share analysis (2023)

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