

Global Ingredient Authentication Testing Solutions
Market Size study, by Type (Laboratory-based
Solutions, Rapid & Portable Test Kits), by Technology
(High-Performance Liquid Chromatography, Mass
Spectrometry, Next-Generation Sequencing, Nuclear
Magnetic Resonance Spectroscopy, Polymerase
Chain Reaction), by End-User (Agriculture, Food &
Beverage, Nutraceuticals, Personal Care & Cosmetics,
Pharmaceuticals), by Distribution Channel (Offline,
Online) and Regional Forecasts 2022-2032

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### **Abstracts**

Global Ingredient Authentication Testing Solutions Market is valued approximately at USD 35.51 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 6.60% over the forecast period 2024-2032. Ingredient authentication testing solutions encompass advanced methodologies and technologies used to verify the authenticity and integrity of ingredients in food, pharmaceuticals, and other consumer products. These techniques are critical for detecting adulteration, mislabeling, and ensuring compliance with quality and regulatory standards. The market's expansion is driven by the growing demand for supply chain transparency and stringent regulatory compliance. Technological advancements in testing methods enhance accuracy, reduce costs, and offer rapid results, further bolstering market growth. The burgeoning adoption of Nuclear Magnetic Resonance (NMR) Spectroscopy, which provides detailed molecular structure information, exemplifies the market's technological advancements. However, high cost of sophisticated testing methods and regulatory discrepancies across jurisdictions are hampering the market growth.



The food and beverage industry increasingly relies on ingredient authentication testing to ensure product safety, compliance with regulatory standards, and consumer trust. Such tests are vital for identifying adulterants, confirming authenticity, and verifying label claims, thereby protecting consumers and safeguarding brand reputation. Similarly, the pharmaceutical sector utilizes these testing solutions to verify the purity and efficacy of active pharmaceutical ingredients (APIs) and excipients, ensuring that pharmaceutical products meet stringent regulatory requirements and are safe for consumption. Additionally, the personal care and cosmetics industry leverages ingredient authentication testing to verify the composition and quality of products, reflecting growing consumer consciousness regarding product ingredients and their potential impacts.

The key regions considered for the Global Ingredient Authentication Testing Solutions Market study include Asia Pacific, North America, Europe, Latin America, and Middle East and Africa. Among this in year 2023, North America, particularly the United States and Canada, has dominated the market due to stringent regulations and high consumer demand for transparency in food and pharmaceutical ingredients. The APAC region is witnessing the fastest growth driven by surging food safety concerns and export requirements, emphasizing mass production and cost efficiency. Meanwhile, the EMEA region, especially the European Union, demands high precision and compliance with strict food and ingredient labeling regulations, fostering a market that values detailed testing methodologies. The Middle East and Africa are gradually evolving, with increasing food safety awareness driving market growth.

Major market players included in this report are:

Agilent Technologies, Inc.

**ALS Limited** 

AsureQuality Limited

Azenta, Inc.

Bio-Rad Laboratories, Inc.

**Bruker Corporation** 

Bureau Veritas SA

Clear Labs, Inc.

Danaher Corporation

DNANudge Ltd.

EM Topco Limited

**EUROFINS SCIENTIFIC Limited** 



FoodChain ID Group, Inc.

FoSS Analytical A/S

Intertek Group plc

LGC Limited

**Neogen Corporation** 

OMIC USA Inc.

PerkinElmer Inc.

Romer Labs Division Holding GmbH

SGS SA

Thermo Fisher Scientific Inc.

T?V S?D

**UL LLC** 

Waters Corporation

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

By Type:

Laboratory-based Solutions

Rapid & Portable Test Kits

By Technology:

High-Performance Liquid Chromatography

Mass Spectrometry

**Next-Generation Sequencing** 

Nuclear Magnetic Resonance Spectroscopy

Polymerase Chain Reaction

By End-User:

Agriculture

Food & Beverage

**Nutraceuticals** 

Personal Care & Cosmetics

Pharmaceuticals

By Distribution Channel:

Offline

Online

By Region:

North America

U.S.

Canada



Europe
UK
Germany
France
Spain
Italy

Asia Pacific

China

ROE

India

Japan

Australia

South Korea

**RoAPAC** 

Latin America

Brazil

Mexico

Rest of Latin America

Middle East & Africa Saudi Arabia South Africa RoMEA

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 INGREDIENT AUTHENTICATION TESTING SOLUTIONS MARKET EXECUTIVE SUMMARY

- 1.1. Global Ingredient Authentication Testing Solutions Market Size & Forecast (2022-2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
  - 1.3.1. By Type
  - 1.3.2. By Technology
  - 1.3.3. By End-User
  - 1.3.4. By Distribution Channel
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

# CHAPTER 2. GLOBAL INGREDIENT AUTHENTICATION TESTING SOLUTIONS 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 INGREDIENT AUTHENTICATION TESTING SOLUTIONS MARKET DYNAMICS

- 3.1. Market Drivers
  - 3.1.1. Increasing demand for supply chain transparency
  - 3.1.2. Stringent regulatory compliance
  - 3.1.3. Technological advancements in testing methodologies
- 3.2. Market Challenges
  - 3.2.1. High cost of sophisticated testing methods
  - 3.2.2. Regulatory discrepancies across jurisdictions
- 3.3. Market Opportunities
  - 3.3.1. Development of cost-efficient testing techniques
  - 3.3.2. Integration of testing with digital traceability
  - 3.3.3. Application of AI and machine learning in ingredient authentication

# CHAPTER 4. GLOBAL INGREDIENT AUTHENTICATION TESTING SOLUTIONS 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 INGREDIENT AUTHENTICATION TESTING SOLUTIONS MARKET SIZE & FORECASTS BY TYPE 2022-2032

- 5.1. Segment Dashboard
- 5.2. Global Ingredient Authentication Testing Solutions Market: Type Revenue Trend Analysis, 2022 & 2032 (USD Billion)
  - 5.2.1. Laboratory-based Solutions
  - 5.2.2. Rapid & Portable Test Kits

## CHAPTER 6. GLOBAL INGREDIENT AUTHENTICATION TESTING SOLUTIONS MARKET SIZE & FORECASTS BY TECHNOLOGY 2022-2032

- 6.1. Segment Dashboard
- 6.2. Global Ingredient Authentication Testing Solutions Market: Technology Revenue Trend Analysis, 2022 & 2032 (USD Billion)
  - 6.2.1. High-Performance Liquid Chromatography
  - 6.2.2. Mass Spectrometry
  - 6.2.3. Next-Generation Sequencing
  - 6.2.4. Nuclear Magnetic Resonance Spectroscopy
  - 6.2.5. Polymerase Chain Reaction

# CHAPTER 7. GLOBAL INGREDIENT AUTHENTICATION TESTING SOLUTIONS MARKET SIZE & FORECASTS BY END-USER 2022-2032

- 7.1. Segment Dashboard
- 7.2. Global Ingredient Authentication Testing Solutions Market: End-User Revenue Trend Analysis, 2022 & 2032 (USD Billion)
  - 7.2.1. Agriculture
  - 7.2.2. Food & Beverage
  - 7.2.3. Nutraceuticals
  - 7.2.4. Personal Care & Cosmetics
  - 7.2.5. Pharmaceuticals

# CHAPTER 8. GLOBAL INGREDIENT AUTHENTICATION TESTING SOLUTIONS MARKET SIZE & FORECASTS BY DISTRIBUTION CHANNEL 2022-2032

- 8.1. Segment Dashboard
- 8.2. Global Ingredient Authentication Testing Solutions Market: Distribution Channel



Revenue Trend Analysis, 2022 & 2032 (USD Billion)

- 8.2.1. Offline
- 8.2.2. Online

# CHAPTER 9. GLOBAL INGREDIENT AUTHENTICATION TESTING SOLUTIONS MARKET SIZE & FORECASTS BY REGION 2022-2032

- 9.1. North America Ingredient Authentication Testing Solutions Market
  - 9.1.1. U.S. Ingredient Authentication Testing Solutions Market
    - 9.1.1.1. Type breakdown size & forecasts, 2022-2032
    - 9.1.1.2. Technology breakdown size & forecasts, 2022-2032
    - 9.1.1.3. End-User breakdown size & forecasts, 2022-2032
    - 9.1.1.4. Distribution Channel breakdown size & forecasts, 2022-2032
  - 9.1.2. Canada Ingredient Authentication Testing Solutions Market
    - 9.1.2.1. Type breakdown size & forecasts, 2022-2032
    - 9.1.2.2. Technology breakdown size & forecasts, 2022-2032
    - 9.1.2.3. End-User breakdown size & forecasts, 2022-2032
    - 9.1.2.4. Distribution Channel breakdown size & forecasts, 2022-2032
- 9.2. Europe Ingredient Authentication Testing Solutions Market
  - 9.2.1. UK Ingredient Authentication Testing Solutions Market
    - 9.2.1.1. Type breakdown size & forecasts, 2022-2032
    - 9.2.1.2. Technology breakdown size & forecasts, 2022-2032
    - 9.2.1.3. End-User breakdown size & forecasts, 2022-2032
  - 9.2.1.4. Distribution Channel breakdown size & forecasts, 2022-2032
  - 9.2.2. Germany Ingredient Authentication Testing Solutions Market
    - 9.2.2.1. Type breakdown size & forecasts, 2022-2032
    - 9.2.2.2. Technology breakdown size & forecasts, 2022-2032
  - 9.2.2.3. End-User breakdown size & forecasts, 2022-2032
  - 9.2.2.4. Distribution Channel breakdown size & forecasts, 2022-2032
  - 9.2.3. France Ingredient Authentication Testing Solutions Market
    - 9.2.3.1. Type breakdown size & forecasts, 2022-2032
    - 9.2.3.2. Technology breakdown size & forecasts, 2022-2032
    - 9.2.3.3. End-User breakdown size & forecasts, 2022-2032
    - 9.2.3.4. Distribution Channel breakdown size & forecasts, 2022-2032
  - 9.2.4. Spain Ingredient Authentication Testing Solutions Market
    - 9.2.4.1. Type breakdown size & forecasts, 2022-2032
    - 9.2.4.2. Technology breakdown size & forecasts, 2022-2032
    - 9.2.4.3. End-User breakdown size & forecasts, 2022-2032
    - 9.2.4.4. Distribution Channel breakdown size & forecasts, 2022-2032



- 9.2.5. Italy Ingredient Authentication Testing Solutions Market
  - 9.2.5.1. Type breakdown size & forecasts, 2022-2032
  - 9.2.5.2. Technology breakdown size & forecasts, 2022-2032
  - 9.2.5.3. End-User breakdown size & forecasts, 2022-2032
  - 9.2.5.4. Distribution Channel breakdown size & forecasts, 2022-2032
- 9.2.6. Rest of Europe Ingredient Authentication Testing Solutions Market
  - 9.2.6.1. Type breakdown size & forecasts, 2022-2032
  - 9.2.6.2. Technology breakdown size & forecasts, 2022-2032
  - 9.2.6.3. End-User breakdown size & forecasts, 2022-2032
  - 9.2.6.4. Distribution Channel breakdown size & forecasts, 2022-2032
- 9.3. Asia-Pacific Ingredient Authentication Testing Solutions Market
  - 9.3.1. China Ingredient Authentication Testing Solutions Market
    - 9.3.1.1. Type breakdown size & forecasts, 2022-2032
    - 9.3.1.2. Technology breakdown size & forecasts, 2022-2032
    - 9.3.1.3. End-User breakdown size & forecasts, 2022-2032
    - 9.3.1.4. Distribution Channel breakdown size & forecasts, 2022-2032
  - 9.3.2. India Ingredient Authentication Testing Solutions Market
    - 9.3.2.1. Type breakdown size & forecasts, 2022-2032
    - 9.3.2.2. Technology breakdown size & forecasts, 2022-2032
    - 9.3.2.3. End-User breakdown size & forecasts, 2022-2032
    - 9.3.2.4. Distribution Channel breakdown size & forecasts, 2022-2032
  - 9.3.3. Japan Ingredient Authentication Testing Solutions Market
    - 9.3.3.1. Type breakdown size & forecasts, 2022-2032
    - 9.3.3.2. Technology breakdown size & forecasts, 2022-2032
  - 9.3.3.3. End-User breakdown size & forecasts, 2022-2032
  - 9.3.3.4. Distribution Channel breakdown size & forecasts, 2022-2032
  - 9.3.4. Australia Ingredient Authentication Testing Solutions Market
  - 9.3.4.1. Type breakdown size & forecasts, 2022-2032
  - 9.3.4.2. Technology breakdown size & forecasts, 2022-2032
  - 9.3.4.3. End-User breakdown size & forecasts, 2022-2032
  - 9.3.4.4. Distribution Channel breakdown size & forecasts, 2022-2032
  - 9.3.5. South Korea Ingredient Authentication Testing Solutions Market
    - 9.3.5.1. Type breakdown size & forecasts, 2022-2032
    - 9.3.5.2. Technology breakdown size & forecasts, 2022-2032
    - 9.3.5.3. End-User breakdown size & forecasts, 2022-2032
    - 9.3.5.4. Distribution Channel breakdown size & forecasts, 2022-2032
  - 9.3.6. Rest of Asia-Pacific Ingredient Authentication Testing Solutions Market
    - 9.3.6.1. Type breakdown size & forecasts, 2022-2032
    - 9.3.6.2. Technology breakdown size & forecasts, 2022-2032



- 9.3.6.3. End-User breakdown size & forecasts, 2022-2032
- 9.3.6.4. Distribution Channel breakdown size & forecasts, 2022-2032
- 9.4. Latin America Ingredient Authentication Testing Solutions Market
  - 9.4.1. Brazil Ingredient Authentication Testing Solutions Market
    - 9.4.1.1. Type breakdown size & forecasts, 2022-2032
    - 9.4.1.2. Technology breakdown size & forecasts, 2022-2032
    - 9.4.1.3. End-User breakdown size & forecasts, 2022-2032
    - 9.4.1.4. Distribution Channel breakdown size & forecasts, 2022-2032
  - 9.4.2. Mexico Ingredient Authentication Testing Solutions Market
    - 9.4.2.1. Type breakdown size & forecasts, 2022-2032
    - 9.4.2.2. Technology breakdown size & forecasts, 2022-2032
    - 9.4.2.3. End-User breakdown size & forecasts, 2022-2032
    - 9.4.2.4. Distribution Channel breakdown size & forecasts, 2022-2032
  - 9.4.3. Rest of Latin America Ingredient Authentication Testing Solutions Market
    - 9.4.3.1. Type breakdown size & forecasts, 2022-2032
    - 9.4.3.2. Technology breakdown size & forecasts, 2022-2032
    - 9.4.3.3. End-User breakdown size & forecasts, 2022-2032
    - 9.4.3.4. Distribution Channel breakdown size & forecasts, 2022-2032
- 9.5. Middle East & Africa Ingredient Authentication Testing Solutions Market
  - 9.5.1. Saudi Arabia Ingredient Authentication Testing Solutions Market
    - 9.5.1.1. Type breakdown size & forecasts, 2022-2032
    - 9.5.1.2. Technology breakdown size & forecasts, 2022-2032
    - 9.5.1.3. End-User breakdown size & forecasts, 2022-2032
  - 9.5.1.4. Distribution Channel breakdown size & forecasts, 2022-2032
  - 9.5.2. South Africa Ingredient Authentication Testing Solutions Market
    - 9.5.2.1. Type breakdown size & forecasts, 2022-2032
    - 9.5.2.2. Technology breakdown size & forecasts, 2022-2032
  - 9.5.2.3. End-User breakdown size & forecasts, 2022-2032
  - 9.5.2.4. Distribution Channel breakdown size & forecasts, 2022-2032
  - 9.5.3. Rest of Middle East & Africa Ingredient Authentication Testing Solutions Market
    - 9.5.3.1. Type breakdown size & forecasts, 2022-2032
    - 9.5.3.2. Technology breakdown size & forecasts, 2022-2032
    - 9.5.3.3. End-User breakdown size & forecasts, 2022-2032
    - 9.5.3.4. Distribution Channel breakdown size & forecasts, 2022-2032

### **CHAPTER 10. COMPETITIVE INTELLIGENCE**

- 10.1. Key Company SWOT Analysis
  - 10.1.1. Company



- 10.1.2. Company
- 10.1.3. Company
- 10.2. Top Market Strategies
- 10.3. Company Profiles
  - 10.3.1. Agilent Technologies, Inc.
    - 10.3.1.1. Key Information
    - 10.3.1.2. Overview
    - 10.3.1.3. Financial (Subject to Data Availability)
    - 10.3.1.4. Product Summary
    - 10.3.1.5. Market Strategies
  - 10.3.2. ALS Limited
  - 10.3.3. AsureQuality Limited
  - 10.3.4. Azenta, Inc.
  - 10.3.5. Bio-Rad Laboratories, Inc.
  - 10.3.6. Bruker Corporation
  - 10.3.7. Bureau Veritas SA
  - 10.3.8. Clear Labs, Inc.
  - 10.3.9. Danaher Corporation
  - 10.3.10. DNANudge Ltd.
  - 10.3.11. EM Topco Limited
  - 10.3.12. EUROFINS SCIENTIFIC Limited
  - 10.3.13. FoodChain ID Group, Inc.
  - 10.3.14. FoSS Analytical A/S
  - 10.3.15. Intertek Group plc
  - 10.3.16. LGC Limited
  - 10.3.17. Neogen Corporation
  - 10.3.18. OMIC USA Inc.
  - 10.3.19. PerkinElmer Inc.
  - 10.3.20. Romer Labs Division Holding GmbH
  - 10.3.21. SGS SA
  - 10.3.22. Thermo Fisher Scientific Inc.
  - 10.3.23. T?V S?D
  - 10.3.24. UL LLC
  - 10.3.25. Waters Corporation

#### CHAPTER 11. RESEARCH PROCESS

- 11.1. Research Process
  - 11.1.1. Data Mining



- 11.1.2. Analysis
- 11.1.3. Market Estimation
- 11.1.4. Validation
- 11.1.5. Publishing
- 11.2. Research Attributes



## **List Of Tables**

### LIST OF TABLES

- TABLE 1. Global Ingredient Authentication Testing Solutions Market, report scope
- TABLE 2. Global Ingredient Authentication Testing Solutions Market estimates & forecasts by Region 2022-2032 (USD Billion)
- TABLE 3. Global Ingredient Authentication Testing Solutions Market estimates & forecasts by Type 2022-2032 (USD Billion)
- TABLE 4. Global Ingredient Authentication Testing Solutions Market estimates & forecasts by Technology 2022-2032 (USD Billion)
- TABLE 5. Global Ingredient Authentication Testing Solutions Market estimates & forecasts by End-User 2022-2032 (USD Billion)
- TABLE 6. Global Ingredient Authentication Testing Solutions Market estimates & forecasts by Distribution Channel 2022-2032 (USD Billion)
- TABLE 7. Global Ingredient Authentication Testing Solutions Market by segment, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 8. Global Ingredient Authentication Testing Solutions Market by region, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 9. Global Ingredient Authentication Testing Solutions Market by segment, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 10. Global Ingredient Authentication Testing Solutions Market by region, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 11. Global Ingredient Authentication Testing Solutions Market by segment, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 12. Global Ingredient Authentication Testing Solutions Market by region, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 13. Global Ingredient Authentication Testing Solutions Market by segment, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 14. Global Ingredient Authentication Testing Solutions Market by region, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 15. U.S. Ingredient Authentication Testing Solutions Market estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 16. U.S. Ingredient Authentication Testing Solutions Market estimates & forecasts by segment 2022-2032 (USD Billion)
- TABLE 17. U.S. Ingredient Authentication Testing Solutions Market estimates & forecasts by segment 2022-2032 (USD Billion)
- TABLE 18. Canada Ingredient Authentication Testing Solutions Market estimates & forecasts, 2022-2032 (USD Billion)



TABLE 19. Canada Ingredient Authentication Testing Solutions Market estimates & forecasts by segment 2022-2032 (USD Billion)

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



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