

# Global Analytical Chemistry Sample Preparation Market Size, Share, and Regional Forecasts 2022-2032

<https://marketpublishers.com/r/GF11C68275A1EN.html>

Date: March 2025

Pages: 285

Price: US\$ 3,218.00 (Single User License)

ID: GF11C68275A1EN

## Abstracts

The global analytical chemistry sample preparation market is valued at USD 2.2 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 5.67% CAGR over the forecast period 2024-2032. The rising demand for precise and reliable testing across pharmaceuticals, food safety, environmental monitoring, and research applications is driving market expansion. The increasing adoption of automated sample preparation techniques enhances efficiency, reduces human error, and improves reproducibility, fueling industry growth. Advanced methods such as solid-phase extraction, microextraction, and AI-driven automation further contribute to the market's rapid development.

The integration of artificial intelligence (AI) and automation in laboratories is revolutionizing analytical chemistry workflows. AI-powered sample preparation enhances accuracy by minimizing variability in processing, improving real-time adjustments, and optimizing data analysis. The increasing demand for high-throughput analysis in pharmaceutical drug discovery, forensic toxicology, and biotechnology applications is accelerating the adoption of lab automation solutions and software-driven sample preparation techniques.

The pharmaceutical and biotechnology industries represent the largest market segment, benefiting from stringent regulatory compliance requirements for drug testing and quality control. Rising investments in precision medicine, biopharmaceutical research, and personalized diagnostics are expanding the need for advanced sample preparation technologies. Additionally, environmental agencies and food regulatory bodies enforce strict testing standards, necessitating efficient sample preparation techniques to ensure safety, purity, and compliance with global regulations.

Geographically, North America dominated the market in 2024, accounting for over 46% of total revenue share, driven by strong investments in research laboratories, advanced pharmaceutical industries, and stringent FDA regulations. However, Asia Pacific is expected to grow at the fastest CAGR due to rising industrialization, increasing R&D spending, and government initiatives to strengthen healthcare infrastructure. China, India, and Japan are emerging as significant contributors to the regional market expansion.

#### Major Market Players Included in This Report Are:

Merck KGaA

Thermo Fisher Scientific Inc.

Bio-Rad Laboratories Inc.

Shimadzu Corporation

Agilent Technologies Inc.

PerkinElmer

Promega Corporation

Danaher Corporation

QIAGEN

Waters Corporation

The Detailed Segments and Sub-Segments of the Market Are Explained Below:

#### By Product:

Kits & Reagents

Consumables

## Instruments & Software

### By Technique:

Extraction

Filtration

Precipitation

Centrifugation

Others

### By Application:

HPLC

LC-MS

GC-MS

MALDI-ToF-MS

ICP-MS

NMR

Others

### By End Use:

Pharmaceutical & Biotechnological Companies

Academic & Research Institutes

Contract Research Organizations (CROs)

Others

By Region:

North America

U.S.

Canada

Mexico

Europe

Germany

UK

France

Italy

Spain

Denmark

Sweden

Norway

Asia Pacific

China

Japan

India

South Korea

Australia

Thailand

Latin America

Brazil

Argentina

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

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 revenue and regional-level analysis for each market segment
- ? Detailed analysis of the geographical landscape with country-level insights
- ? Competitive landscape with market share data of key players
- ? Analysis of key business strategies and recommendations on future market approaches
- ? In-depth demand and supply-side analysis of the market

## Contents

### **CHAPTER 1. GLOBAL ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET EXECUTIVE SUMMARY**

- 1.1. Global Analytical Chemistry Sample Preparation Market Size & Forecast (2022-2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
  - 1.3.1. By Product
  - 1.3.2. By Technique
  - 1.3.3. By Application
  - 1.3.4. By End Use
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendations & Conclusion

### **CHAPTER 2. GLOBAL ANALYTICAL CHEMISTRY SAMPLE PREPARATION 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 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 ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET DYNAMICS**

### **3.1. Market Drivers**

- 3.1.1. Increasing Demand for High-Precision Analytical Testing
- 3.1.2. Growth in Pharmaceutical R&D and Regulatory Compliance
- 3.1.3. Rising Adoption of Automation & AI in Sample Preparation

### **3.2. Market Challenges**

- 3.2.1. High Cost of Advanced Analytical Sample Preparation Equipment
- 3.2.2. Regulatory Complexities and Compliance Burden

### **3.3. Market Opportunities**

- 3.3.1. Expansion of Biopharmaceutical Research & Personalized Medicine
- 3.3.2. Growing Applications in Food Safety & Environmental Monitoring

## **CHAPTER 4. GLOBAL ANALYTICAL CHEMISTRY SAMPLE PREPARATION 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. Future 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 Opportunities**

### **4.4. Top Winning Strategies**

### **4.5. Disruptive Trends in Sample Preparation**

### **4.6. Industry Expert Perspectives**

### **4.7. Analyst Recommendation & Conclusion**



## **CHAPTER 5. GLOBAL ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET SIZE & FORECASTS BY PRODUCT (2022-2032)**

### 5.1. Segment Dashboard

### 5.2. Global Analytical Chemistry Sample Preparation Market by Product Revenue Trend Analysis (2022 & 2032)

#### 5.2.1. Kits & Reagents

#### 5.2.2. Consumables

#### 5.2.3. Instruments & Software

## **CHAPTER 6. GLOBAL ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET SIZE & FORECASTS BY TECHNIQUE (2022-2032)**

### 6.1. Segment Dashboard

### 6.2. Global Analytical Chemistry Sample Preparation Market by Technique Revenue Trend Analysis (2022 & 2032)

#### 6.2.1. Extraction

#### 6.2.2. Filtration

#### 6.2.3. Precipitation

#### 6.2.4. Centrifugation

#### 6.2.5. Others

## **CHAPTER 7. GLOBAL ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET SIZE & FORECASTS BY APPLICATION (2022-2032)**

### 7.1. Segment Dashboard

### 7.2. Global Analytical Chemistry Sample Preparation Market by Application Revenue Trend Analysis (2022 & 2032)

#### 7.2.1. HPLC

#### 7.2.2. LC-MS

#### 7.2.3. GC-MS

#### 7.2.4. MALDI-ToF-MS

#### 7.2.5. ICP-MS

#### 7.2.6. NMR

#### 7.2.7. Others

## **CHAPTER 8. GLOBAL ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET SIZE & FORECASTS BY END USE (2022-2032)**

## 8.1. Segment Dashboard

## 8.2. Global Analytical Chemistry Sample Preparation Market by End Use Revenue Trend Analysis (2022 & 2032)

### 8.2.1. Pharmaceutical & Biotechnological Companies

### 8.2.2. Academic & Research Institutes

### 8.2.3. Contract Research Organizations

### 8.2.4. Others

## **CHAPTER 9. GLOBAL ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET SIZE & FORECASTS BY REGION (2022-2032)**

## 9.1. North America Analytical Chemistry Sample Preparation Market

### 9.1.1. U.S.

### 9.1.2. Canada

### 9.1.3. Mexico

## 9.2. Europe Analytical Chemistry Sample Preparation Market

### 9.2.1. UK

### 9.2.2. Germany

### 9.2.3. France

### 9.2.4. Italy

### 9.2.5. Spain

### 9.2.6. Denmark

### 9.2.7. Sweden

### 9.2.8. Norway

## 9.3. Asia-Pacific Analytical Chemistry Sample Preparation Market

### 9.3.1. China

### 9.3.2. Japan

### 9.3.3. India

### 9.3.4. South Korea

### 9.3.5. Australia

### 9.3.6. Thailand

## 9.4. Latin America Analytical Chemistry Sample Preparation Market

### 9.4.1. Brazil

### 9.4.2. Argentina

## 9.5. Middle East & Africa Analytical Chemistry Sample Preparation Market

### 9.5.1. Saudi Arabia

### 9.5.2. South Africa

### 9.5.3. UAE

### 9.5.4. Kuwait

## **CHAPTER 10. COMPETITIVE INTELLIGENCE**

### 10.1. Key Company SWOT Analysis

#### 10.1.1. Merck KGaA

#### 10.1.2. Thermo Fisher Scientific Inc.

#### 10.1.3. Bio-Rad Laboratories Inc.

### 10.2. Top Market Strategies

### 10.3. Company Profiles

#### 10.3.1. Agilent Technologies Inc.

#### 10.3.2. PerkinElmer

#### 10.3.3. Promega Corporation

#### 10.3.4. Danaher Corporation

#### 10.3.5. QIAGEN

#### 10.3.6. 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

- 1. GLOBAL ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET, REPORT SCOPE**
- 2. GLOBAL ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET ESTIMATES & FORECASTS BY REGION, 2022-2032 (USD MILLION/BILLION)**
- 3. GLOBAL ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET ESTIMATES & FORECASTS BY PRODUCT, 2022-2032 (USD MILLION/BILLION)**
- 4. GLOBAL ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET ESTIMATES & FORECASTS BY TECHNIQUE, 2022-2032 (USD MILLION/BILLION)**
- 5. GLOBAL ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET ESTIMATES & FORECASTS BY APPLICATION, 2022-2032 (USD MILLION/BILLION)**
- 6. GLOBAL ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET ESTIMATES & FORECASTS BY END USE, 2022-2032 (USD MILLION/BILLION)**
- 7. NORTH AMERICA ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET ESTIMATES & FORECASTS, 2022-2032 (USD MILLION/BILLION)**
- 8. U.S. ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET ESTIMATES & FORECASTS, 2022-2032 (USD MILLION/BILLION)**
- 9. CANADA ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET ESTIMATES & FORECASTS, 2022-2032 (USD MILLION/BILLION)**
- 10. EUROPE ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET ESTIMATES & FORECASTS, 2022-2032 (USD MILLION/BILLION)**
- 11. GERMANY ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET ESTIMATES & FORECASTS, 2022-2032 (USD MILLION/BILLION)**
- 12. UK ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET ESTIMATES**

**& FORECASTS, 2022-2032 (USD MILLION/BILLION)****13. ASIA-PACIFIC ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET ESTIMATES & FORECASTS, 2022-2032 (USD MILLION/BILLION)****14. CHINA ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET ESTIMATES & FORECASTS, 2022-2032 (USD MILLION/BILLION)****15. JAPAN ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET ESTIMATES & FORECASTS, 2022-2032 (USD MILLION/BILLION)****16. INDIA ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET ESTIMATES & FORECASTS, 2022-2032 (USD MILLION/BILLION)****17. LATIN AMERICA ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET ESTIMATES & FORECASTS, 2022-2032 (USD MILLION/BILLION)****18. BRAZIL ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET ESTIMATES & FORECASTS, 2022-2032 (USD MILLION/BILLION)****19. MIDDLE EAST & AFRICA ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET ESTIMATES & FORECASTS, 2022-2032 (USD MILLION/BILLION)****20. SAUDI ARABIA ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET ESTIMATES & FORECASTS, 2022-2032 (USD MILLION/BILLION)****21. COMPETITIVE LANDSCAPE – KEY PLAYERS MARKET SHARE ANALYSIS (2023)****22. KEY COMPANY SWOT ANALYSIS OF MERCK KGAA, THERMO FISHER SCIENTIFIC, AND BIO-RAD LABORATORIES INC.****23. GLOBAL ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET: GROWTH RATE BY PRODUCT (CAGR %), 2022-2032****24. GLOBAL ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET: GROWTH RATE BY TECHNIQUE (CAGR %), 2022-2032****25. GLOBAL ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET:**

## **GROWTH RATE BY APPLICATION (CAGR %), 2022-2032**

### **26. RECENT DEVELOPMENTS IN ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET, 2022-2032**

### **27. INVESTMENT OPPORTUNITIES AND KEY MARKET TRENDS IN ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET**

## List Of Figures

### LIST OF FIGURES

- 1. GLOBAL ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET RESEARCH METHODOLOGY**
- 2. GLOBAL ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET SIZE ESTIMATES & FORECAST METHODS**
- 3. GLOBAL ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET KEY TRENDS (2022-2032)**
- 4. GLOBAL ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET GROWTH PROSPECTS (2022-2032)**
- 5. PORTER'S FIVE FORCES ANALYSIS OF ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET**
- 6. PESTEL ANALYSIS OF ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET**
- 7. VALUE CHAIN ANALYSIS OF ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET**
- 8. COMPETITIVE LANDSCAPE – MARKET SHARE OF KEY PLAYERS IN 2025**
- 9. GLOBAL ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET BY PRODUCT, 2022 & 2032 (USD MILLION/BILLION)**
- 10. GLOBAL ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET BY TECHNIQUE, 2022 & 2032 (USD MILLION/BILLION)**
- 11. GLOBAL ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET BY APPLICATION, 2022 & 2032 (USD MILLION/BILLION)**
- 12. GLOBAL ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET BY END USE, 2022 & 2032 (USD MILLION/BILLION)**

**13. GLOBAL ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET BY REGION, 2022 & 2032 (USD MILLION/BILLION)**

**14. NORTH AMERICA ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET SHARE, 2022 & 2032 (USD MILLION/BILLION)**

**15. EUROPE ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET SHARE, 2022 & 2032 (USD MILLION/BILLION)**

**16. ASIA-PACIFIC ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET SHARE, 2022 & 2032 (USD MILLION/BILLION)**

**17. LATIN AMERICA ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET SHARE, 2022 & 2032 (USD MILLION/BILLION)**

**18. MIDDLE EAST & AFRICA ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET SHARE, 2022 & 2032 (USD MILLION/BILLION)**

**19. KEY GROWTH STRATEGIES ADOPTED BY MARKET PLAYERS IN THE ANALYTICAL CHEMISTRY SAMPLE PREPARATION INDUSTRY**

**20. REGIONAL DEMAND FOR ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET IN EMERGING ECONOMIES**

**21. IMPACT OF AUTOMATION & AI ON ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET**

**22. MARKET ATTRACTIVENESS ANALYSIS BY REGION**

**23. INVESTMENT FEASIBILITY ANALYSIS IN ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET**

**24. SWOT ANALYSIS OF KEY PLAYERS IN THE ANALYTICAL CHEMISTRY SAMPLE PREPARATION MARKET**

**25. FORECASTED TECHNOLOGICAL ADVANCEMENTS IN ANALYTICAL CHEMISTRY SAMPLE PREPARATION INDUSTRY**



## I would like to order

Product name: Global Analytical Chemistry Sample Preparation Market Size, Share, and Regional Forecasts 2022-2032

Product link: <https://marketpublishers.com/r/GF11C68275A1EN.html>

Price: US\$ 3,218.00 (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/GF11C68275A1EN.html>