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2D Chromatography Market Research Report—Global Forecast till 2032

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Description:

Global 2D Chromatography Market Overview

2D Chromatography Market Size was valued at USD 0.2 billion in 2022. The 2D chromatography market industry is projected to grow from USD 0.214 Billion in 2023 to USD 0.3707 billion by 2032, exhibiting a compound annual growth rate (CAGR) of 7.10% during the forecast period (2023 - 2032). The main market drivers of the growth of the 2D chromatography market are the rise in research and applications of 2D chromatography in various fields and the increase in R&D activities due to investments by pharmaceutical, biotechnology, and biopharmaceutical companies.

2D Chromatography Market

Source: Secondary Research, Primary Research, MRFR Database and Analyst Review

2D Chromatography Market Trends

Increasing R&D efforts by pharmaceutical and biopharmaceutical firms is driving the market growth

With the help of two-dimensional chromatography, which is an analytical method, researchers can identify and quantify the constituent parts of a drug's formulation. In pharmaceutical and biopharmaceutical industries, it is also utilized for separating complicated mixes like blood, urine, and ambient chemicals and comparing various components. As a result, the 2D chromatography market is expanding due to an increase in R&D activities ly. The pharmaceutical industry invested USD 83 billion in R&D in 2019, according to a report by the Congressional Budget Office. In addition, the Pharmaceutical Research and Manufacturers of America (PhRMA) estimates that member businesses of PhRMA, including Bristol-Myers Squibb Company, AbbVie, Pfizer Inc., Novartis AG, and others, will invest USD 91.1 billion in R&D in 2020. The demand for 2D chromatography is also anticipated to rise as a result of technological improvement. As a result, the demand for 2D chromatography for new drug development will increase due to the increased R&D activities by biopharmaceutical and pharmaceutical businesses, which are also fueling the market's CAGR.

Two-dimensional chromatography is one of the most popular separation methods used in numerous sectors for locating, separating, and measuring the constituent parts of complicated mixtures. It has many uses, including analysing additives, vitamins, preservatives, proteins, and amino acids for quality control in the food sector as well as monitoring air quality in environmental laboratories. Additionally, 2D chromatography is employed for quality assurance in the creation of petroleum compounds. As a result, the market for 2D chromatography is expected to experience significant development due to the expanding uses of this technology. Thus, driving the 2D chromatography market revenue.

2D Chromatography Market Segment Insights

2D Chromatography Product Insights

The 2D chromatography market segmentation, based on product includes 2D Gas Chromatography and 2D Liquid Chromatography. The 2D Gas chromatography segment dominated the market. This can be ascribed to the oil industry's quick development, rising environmental pollution worries, and growing food safety worries.

2D Chromatography Application Insights

The 2D chromatography market segmentation, based on application, includes Life Science Research, Environmental Analysis, Food & Beverage Testing and Petrochemical & Natural Gas Analysis. The life science research category generated the most income. This segment's revenue growth is primarily driven by the increasing attention paid to biology, biotechnology, proteomics, genomics, bioinformatics, pharmaceutical, and biomedical research.

2D Chromatography End User Insights

The 2D chromatography market segmentation, based on end user, includes Biotechnology & Pharmaceutical Industries and Hospitals & Clinics. The biotechnology & pharmaceutical industries category generated the most income. This segment's revenue growth is driven by an increase in biotech and pharmaceutical businesses, a greater emphasis on medication development, and rising spending on R&D operations.

Figure 1: 2D Chromatography Market, by Distribution channel, 2022 & 2032 (USD billion)

2D Chromatography Market

Source: Secondary Research, Primary Research, MRFR Database and Analyst Review

2D chromatography Regional Insights

By Region, the study provides the market insights into North America, Europe, Asia-Pacific and Rest of the World. The North American 2D chromatography market area will dominate this market, with the highest revenue share contributor to the regional

market coming from the United States. Major factors influencing the market's revenue growth in this area include increasing investment in the healthcare sector, adoption of cutting-edge procedures, and a strong presence of leading market competitors.

Further, the major countries studied in the market report are The U.S., Canada, Germany, France, the UK, Italy, Spain, China, Japan, India, Australia, South Korea, and Brazil.

**Figure 2: 2D CHROMATOGRAPHY MARKET SHARE BY REGION 2022 (%)**

#### 2D Chromatography Market

**Source: Secondary Research, Primary Research, MRFR Database and Analyst Review**

Europe 2D chromatography market accounts for the second-largest market share. Future market expansion is anticipated to be fueled by factors such as the quick advancements in the pharmaceutical and biotechnology industries and the growing emphasis on medication development. Further, the German 2D chromatography market held the largest market share, and the UK 2D chromatography market was the fastest growing market in the European region.

The Asia-Pacific 2D chromatography Market is expected to grow at the fastest CAGR from 2023 to 2032. The expansion of biotech businesses and ongoing financial support for pharmaceutical industries' R&D efforts are two major drivers of the market's expansion in terms of revenue. Moreover, China's 2D chromatography market held the largest market share, and the Indian 2D chromatography market was the fastest growing market in the Asia-Pacific region.

#### 2D chromatography Key Market Players & Competitive Insights

Leading market players are investing heavily in research and development in order to expand their product lines, which will help the 2D chromatography market, grow even more. Market participants are also undertaking a variety of strategic activities to expand their footprint, with important market developments including new product launches, contractual agreements, mergers and acquisitions, higher investments, and collaboration with other organizations. To expand and survive in a more competitive and rising market climate, 2D chromatography industry must offer cost-effective items.

Manufacturing locally to minimize operational costs is one of the key business tactics used by manufacturers in the 2D chromatography industry to benefit clients and increase the market sector. In recent years, the 2D chromatography industry has offered some of the most significant advantages to medicine. Major players in the 2D chromatography market attempting to increase market demand by investing in research and development operations include Agilent Technologies Inc. (US), LECO Corporation (US), Waters Corporation (US), Shimadzu Corporation (Japan), Restek Corporation (US), Sepsolve Analytical Ltd (UK), Merck KGaA (Germany), Danaher Corporation (US), Bio-Rad Laboratories Inc. (US) and Thermo Fisher Scientific (US).

The company Agilent Technologies Inc. (Agilent) sells equipment, chemicals, consumables, services, and software for complete laboratory workflow. Its product line includes, among other things, automation systems, microarray solutions, clinical and diagnostic tests, liquid and gas chromatography systems, and components. The business provides services to a variety of industries, including biotechnology, pharmaceuticals, contract research organisations (CROs) and contract manufacturing organisations (CMOs), chemical and energy, environmental and forensics, food, and others. In March 2021, Agilent 8697 Headspace Sampler, the first headspace sampler with integrated gas chromatography communication, was released by Agilent Technologies Inc. in the US. This new product will increase the platforms for 2D gas chromatography's intelligence, diagnostics, and troubleshooting.

Danaher Corp. (Danaher) develops, produces, and sells industrial, commercial, and medical goods and services. It provides a vast array of testing equipment, water quality systems, communications solutions, medical diagnostic solutions, professional microscopes, product identification solutions, sustainable packaging design solutions, life science research tools, automation solutions, and sensors and controls solutions. According to a statement, the label-free biomolecular characterisation, chromatography hardware & resins, microcarriers, and particle validation standards businesses of Danaher Corporation will be sold to Sartorius AG. Together, these companies generated 140 million USD in revenue in 2018.

#### Key Companies in the 2D chromatography market include

- Agilent Technologies Inc. (US)
- LECO Corporation (US)
- Waters Corporation (US)
- Shimadzu Corporation (Japan)
- Restek Corporation (US)
- Sepsolve Analytical Ltd (UK)
- Merck KGaA (Germany)
- Danaher Corporation (US)
- Bio-Rad Laboratories Inc. (US)
- Thermo Fisher Scientific (US)

#### 2D Chromatography Industry Developments

**March 2020:** Launch of the LC6000 liquid chromatograph by Scion Instruments. The features of this system include a large solvent cabinet, low-volume degassing choices, ultra-low carry-over, flow rate and injection volume precision, and accurate chromatography.

**November 2019:** A totally solvent-compatible, high-performance liquid chromatography system called ACQUITY Advanced Polymer Chromatography was introduced by Waters Corporation. This system may carry out reversed-phase liquid chromatographic separations compatible with solvents, size exclusion, and gradient polymer elution on a single platform.

#### 2D Chromatography Market Segmentation

##### 2D Chromatography Product Outlook

- 2D Gas Chromatography
- 2D Liquid Chromatography

## 2D Chromatography Application Outlook

- Life Science Research
- Environmental Analysis
- Food & Beverage Testing
- Petrochemical & Natural Gas Analysis

## 2D Chromatography End User Outlook

- Biotechnology & Pharmaceutical Industries
- Hospitals & Clinics

## 2D Chromatography Regional Outlook

- North America
- US
- Canada
- Europe
- Germany
- France
- UK
- Italy
- Spain
- Rest of Europe
- Asia-Pacific
  - China
  - Japan
  - India
  - Australia
  - South Korea
  - Australia
  - Rest of Asia-Pacific
- Rest of the World
  - Middle East
  - Africa
  - Latin America

## Table of Content:

Contents
<b>TABLE OF CONTENTS</b>
<b>1. EXECUTIVE SUMMARY</b>
<b>2. MARKET INTRODUCTION</b>
2.1. Definition
2.2. Scope of the Study
2.2.1. Research Objective
2.2.2. Assumptions
2.2.3. Limitations
<b>3. RESEARCH METHODOLOGY</b>
3.1. Overview
3.2. Data Mining
3.3. Secondary Research
3.4. Primary Research
3.4.1. Primary Interviews and Information Gathering Process
3.4.2. Breakdown of Primary Respondents
3.5. Forecasting Techniques
3.6. Market Size Estimation
3.6.1. Bottom-Up Approach

3.6.2. Top-Down Approach	
3.7. Data Triangulation	
3.8. Validation	
<b>4. MARKET DYNAMICS</b>	
4.1. Overview	
4.2. Drivers	
4.3. Restraints	
4.4. Opportunities	
<b>5. MARKET FACTOR ANALYSIS</b>	
5.1. Porter's Five Forces Analysis	
5.1.1. Bargaining Power of Suppliers	
5.1.2. Bargaining Power of Buyers	
5.1.3. Threat of New Entrants	
5.1.4. Threat of Substitutes	
5.1.5. Intensity of Rivalry	
5.2. Value Chain Analysis	
5.3. COVID-19 Impact Analysis	
5.3.1. Market Impact Analysis	
5.3.2. Impact on Supply Chain	
5.3.3. Regional Impact	
5.3.4. Opportunity and Threat Analysis	
<b>6. GLOBAL 2D CHROMATOGRAPHY MARKET, BY PRODUCT</b>	
6.1. Overview	
6.2. 2D Gas Chromatography	
Market Estimates & Forecast, by Region, 2022–2030	
Market Estimates & Forecast, by Country, 2022–2030	
6.3. 2D Liquid Chromatography	
Market Estimates & Forecast, by Region, 2022–2030	
Market Estimates & Forecast, by Country, 2022–2030	
<b>7. GLOBAL 2D CHROMATOGRAPHY MARKET, BY APPLICATION</b>	
7.1. Overview	
7.2. Life Science Research	
Market Estimates & Forecast, by Region, 2022–2030	
Market Estimates & Forecast, by Country, 2022–2030	
7.3. Environmental Analysis	
Market Estimates & Forecast, by Region, 2022–2030	
Market Estimates & Forecast, by Country, 2022–2030	
7.4. Food & Beverage Testing	
Market Estimates & Forecast, by Region, 2022–2030	
Market Estimates & Forecast, by Country, 2022–2030	
7.5. Petrochemical & Natural Gas Analysis	
Market Estimates & Forecast, by Region, 2022–2030	
Market Estimates & Forecast, by Country, 2022–2030	
7.6. Others	
Market Estimates & Forecast, by Region, 2022–2030	
Market Estimates & Forecast, by Country, 2022–2030	
<b>8. GLOBAL 2D CHROMATOGRAPHY MARKET, BY END USER</b>	
8.1. Overview	
8.2. Biotechnology & Pharmaceutical Industries	
Market Estimates & Forecast, by Region, 2022–2030	
Market Estimates & Forecast, by Country, 2022–2030	
8.3. Hospitals & Clinics	
Market Estimates & Forecast, by Region, 2022–2030	
Market Estimates & Forecast, by Country, 2022–2030	
8.4. Others	
Market Estimates & Forecast, by Region, 2022–2030	
Market Estimates & Forecast, by Country, 2022–2030	
<b>9. GLOBAL 2D CHROMATOGRAPHY MARKET, BY REGION</b>	
9.1. Overview	
9.2. North America	
9.2.1. US	
9.2.2. Canada	
9.3. Europe	
9.3.1. Germany	
9.3.2. France	
9.3.3. Italy	
9.3.4. Spain	
9.3.5. UK	
9.3.6. Rest of Europe	
9.4. Asia-Pacific	
9.4.1. Japan	
9.4.2. China	
9.4.3. India	
9.4.4. Australia	
9.4.5. South Korea	
9.4.6. Rest of Asia-Pacific	
9.5. Rest of the World	
9.5.1. Middle East	
9.5.2. Africa	
9.5.3. Latin America	
<b>10. COMPANY LANDSCAPE</b>	
10.1. Overview	
10.2. Competitive Analysis	
10.3. Market Share Analysis	
10.4. Major Growth Strategy in the Global 2D Chromatography Market	
10.5. Competitive Benchmarking	
10.6. Leading Players in terms of Number of Developments in the Global 2D Chromatography Market	
10.7. Key Developments and Growth Strategies	
10.7.1. New Product Launch/Service Deployment	
10.7.2. Merger & Acquisitions	
10.7.3. Joint Ventures	
10.8. Major Players Financial Matrix	
10.8.1. Sales & Operating Income, 2020	

## 10.8.2. Major Players R&D Expenditure, 2020

### 11. COMPANY PROFILES

#### 11.1. Agilent Technologies, Inc.

##### 11.1.1. Company Overview

##### 11.1.2. Key Financials

##### 11.1.3. Products Offered

##### 11.1.4. Key Developments

##### 11.1.5. SWOT Analysis

##### 11.1.6. Key Strategies

#### 11.2. LECO Corporation

##### 11.2.1. Company Overview

##### 11.2.2. Key Financials

##### 11.2.3. Products Offered

##### 11.2.4. Key Developments

##### 11.2.5. SWOT Analysis

##### 11.2.6. Key Strategies

#### 11.3. Waters Corporation

##### 11.3.1. Company Overview

##### 11.3.2. Key Financials

##### 11.3.3. Products Offered

##### 11.3.4. Key Developments

##### 11.3.5. SWOT Analysis

##### 11.3.6. Key Strategies

#### 11.4. Shimadzu Corporation

##### 11.4.1. Company Overview

##### 11.4.2. Key Financials

##### 11.4.3. Products Offered

##### 11.4.4. Key Developments

##### 11.4.5. SWOT Analysis

##### 11.4.6. Key Strategies

#### 11.5. Restek Corporation

##### 11.5.1. Company Overview

##### 11.5.2. Key Financials

##### 11.5.3. Products Offered

##### 11.5.4. Key Developments

##### 11.5.5. SWOT Analysis

##### 11.5.6. Key Strategies

#### 11.6. Sepsolve Analytical Ltd

##### 11.6.1. Company Overview

##### 11.6.2. Key Financials

##### 11.6.3. Products Offered

##### 11.6.4. Key Developments

##### 11.6.5. SWOT Analysis

##### 11.6.6. Key Strategies

#### 11.7. Merck KGaA

##### 11.7.1. Company Overview

##### 11.7.2. Key Financials

##### 11.7.3. Products Offered

##### 11.7.4. Key Developments

##### 11.7.5. SWOT Analysis

##### 11.7.6. Key Strategies

#### 11.8. Danaher Corporation

##### 11.8.1. Company Overview

##### 11.8.2. Key Financials

##### 11.8.3. Products Offered

##### 11.8.4. Key Developments

##### 11.8.5. SWOT Analysis

##### 11.8.6. Key Strategies

#### 11.9. Bio-Rad Laboratories, Inc.

##### 11.9.1. Company Overview

##### 11.9.2. Key Financials

##### 11.9.3. Products Offered

##### 11.9.4. Key Developments

##### 11.9.5. SWOT Analysis

##### 11.9.6. Key Strategies

#### 11.10. Thermo Fisher Scientific

##### 11.10.1. Company Overview

##### 11.10.2. Key Financials

##### 11.10.3. Products Offered

##### 11.10.4. Key Developments

##### 11.10.5. SWOT Analysis

##### 11.10.6. Key Strategies

### 12. APPENDIX

#### 12.1. References

#### 12.2. Related Reports

#### LIST OF TABLES

TABLE 1 GLOBAL 2D CHROMATOGRAPHY MARKET SYNOPSIS, 2022–2030

TABLE 2 GLOBAL 2D CHROMATOGRAPHY MARKET ESTIMATES & FORECAST, 2022–2030 (USD MILLION)

TABLE 3 GLOBAL 2D CHROMATOGRAPHY MARKET, BY PRODUCT, 2022–2030 (USD MILLION)

TABLE 4 GLOBAL 2D CHROMATOGRAPHY MARKET, BY APPLICATION, 2022–2030 (USD MILLION)

TABLE 5 GLOBAL 2D CHROMATOGRAPHY MARKET, BY END USER, 2022–2030 (USD MILLION)

TABLE 6 NORTH AMERICA: 2D CHROMATOGRAPHY MARKET, BY COUNTRY, 2022–2030 (USD MILLION)

TABLE 7 NORTH AMERICA: 2D CHROMATOGRAPHY MARKET, BY PRODUCT, 2022–2030 (USD MILLION)

TABLE 8 NORTH AMERICA: 2D CHROMATOGRAPHY MARKET, BY APPLICATION, 2022–2030 (USD MILLION)

TABLE 9 NORTH AMERICA: 2D CHROMATOGRAPHY MARKET, BY END USER, 2022–2030 (USD MILLION)

TABLE 10 US: 2D CHROMATOGRAPHY MARKET, BY PRODUCT, 2022–2030 (USD MILLION)

TABLE 11 US: 2D CHROMATOGRAPHY MARKET, BY APPLICATION, 2022–2030 (USD MILLION)

TABLE 12 US: 2D CHROMATOGRAPHY MARKET, BY END USER, 2022–2030 (USD MILLION)

TABLE 13 CANADA: 2D CHROMATOGRAPHY MARKET, BY PRODUCT, 2022–2030 (USD MILLION)

TABLE 14 CANADA: 2D CHROMATOGRAPHY MARKET, BY APPLICATION, 2022–2030 (USD MILLION)

TABLE 15 CANADA: 2D CHROMATOGRAPHY MARKET, BY END USER, 2022–2030 (USD MILLION)

TABLE 16 EUROPE: 2D CHROMATOGRAPHY MARKET, BY COUNTRY, 2022–2030 (USD MILLION)

TABLE 17 EUROPE: 2D CHROMATOGRAPHY MARKET, BY PRODUCT, 2022–2030 (USD MILLION)

TABLE 18 EUROPE: 2D CHROMATOGRAPHY MARKET, BY APPLICATION, 2022–2030 (USD MILLION)
TABLE 19 EUROPE: 2D CHROMATOGRAPHY MARKET, BY END USER, 2022–2030 (USD MILLION)
TABLE 20 GERMANY: 2D CHROMATOGRAPHY MARKET, BY PRODUCT, 2022–2030 (USD MILLION)
TABLE 21 GERMANY: 2D CHROMATOGRAPHY MARKET, BY APPLICATION, 2022–2030 (USD MILLION)
TABLE 22 GERMANY: 2D CHROMATOGRAPHY MARKET, BY END USER, 2022–2030 (USD MILLION)
TABLE 23 FRANCE: 2D CHROMATOGRAPHY MARKET, BY PRODUCT, 2022–2030 (USD MILLION)
TABLE 24 FRANCE: 2D CHROMATOGRAPHY MARKET, BY APPLICATION, 2022–2030 (USD MILLION)
TABLE 25 FRANCE: 2D CHROMATOGRAPHY MARKET, BY END USER, 2022–2030 (USD MILLION)
TABLE 26 ITALY: 2D CHROMATOGRAPHY MARKET, BY PRODUCT, 2022–2030 (USD MILLION)
TABLE 27 ITALY: 2D CHROMATOGRAPHY MARKET, BY APPLICATION, 2022–2030 (USD MILLION)
TABLE 28 ITALY: 2D CHROMATOGRAPHY MARKET, BY END USER, 2022–2030 (USD MILLION)
TABLE 29 SPAIN: 2D CHROMATOGRAPHY MARKET, BY PRODUCT, 2022–2030 (USD MILLION)
TABLE 30 SPAIN: 2D CHROMATOGRAPHY MARKET, BY APPLICATION, 2022–2030 (USD MILLION)
TABLE 31 SPAIN: 2D CHROMATOGRAPHY MARKET, BY END USER, 2022–2030 (USD MILLION)
TABLE 32 UK: 2D CHROMATOGRAPHY MARKET, BY PRODUCT, 2022–2030 (USD MILLION)
TABLE 33 UK: 2D CHROMATOGRAPHY MARKET, BY APPLICATION, 2022–2030 (USD MILLION)
TABLE 34 UK: 2D CHROMATOGRAPHY MARKET, BY END USER, 2022–2030 (USD MILLION)
TABLE 35 REST OF EUROPE: 2D CHROMATOGRAPHY MARKET, BY PRODUCT, 2022–2030 (USD MILLION)
TABLE 36 REST OF EUROPE: 2D CHROMATOGRAPHY MARKET, BY APPLICATION, 2022–2030 (USD MILLION)
TABLE 37 REST OF EUROPE: 2D CHROMATOGRAPHY MARKET, BY END USER, 2022–2030 (USD MILLION)
TABLE 38 ASIA-PACIFIC: 2D CHROMATOGRAPHY MARKET, BY COUNTRY, 2022–2030 (USD MILLION)
TABLE 39 ASIA-PACIFIC: 2D CHROMATOGRAPHY MARKET, BY PRODUCT, 2022–2030 (USD MILLION)
TABLE 40 ASIA-PACIFIC: 2D CHROMATOGRAPHY MARKET, BY APPLICATION, 2022–2030 (USD MILLION)
TABLE 41 ASIA-PACIFIC: 2D CHROMATOGRAPHY MARKET, BY END USER, 2022–2030 (USD MILLION)
TABLE 42 JAPAN: 2D CHROMATOGRAPHY MARKET, BY PRODUCT, 2022–2030 (USD MILLION)
TABLE 43 JAPAN: 2D CHROMATOGRAPHY MARKET, BY APPLICATION, 2022–2030 (USD MILLION)
TABLE 44 JAPAN: 2D CHROMATOGRAPHY MARKET, BY END USER, 2022–2030 (USD MILLION)
TABLE 45 CHINA: 2D CHROMATOGRAPHY MARKET, BY PRODUCT, 2022–2030 (USD MILLION)
TABLE 46 CHINA: 2D CHROMATOGRAPHY MARKET, BY APPLICATION, 2022–2030 (USD MILLION)
TABLE 47 CHINA: 2D CHROMATOGRAPHY MARKET, BY END USER, 2022–2030 (USD MILLION)
TABLE 48 INDIA: 2D CHROMATOGRAPHY MARKET, BY PRODUCT, 2022–2030 (USD MILLION)
TABLE 49 INDIA: 2D CHROMATOGRAPHY MARKET, BY APPLICATION, 2022–2030 (USD MILLION)
TABLE 50 INDIA: 2D CHROMATOGRAPHY MARKET, BY END USER, 2022–2030 (USD MILLION)
TABLE 51 AUSTRALIA: 2D CHROMATOGRAPHY MARKET, BY PRODUCT, 2022–2030 (USD MILLION)
TABLE 52 AUSTRALIA: 2D CHROMATOGRAPHY MARKET, BY APPLICATION, 2022–2030 (USD MILLION)
TABLE 53 AUSTRALIA: 2D CHROMATOGRAPHY MARKET, BY END USER, 2022–2030 (USD MILLION)
TABLE 54 SOUTH KOREA: 2D CHROMATOGRAPHY MARKET, BY PRODUCT, 2022–2030 (USD MILLION)
TABLE 55 SOUTH KOREA: 2D CHROMATOGRAPHY MARKET, BY APPLICATION, 2022–2030 (USD MILLION)
TABLE 56 SOUTH KOREA: 2D CHROMATOGRAPHY MARKET, BY END USER, 2022–2030 (USD MILLION)
TABLE 57 REST OF ASIA-PACIFIC: 2D CHROMATOGRAPHY MARKET, BY PRODUCT, 2022–2030 (USD MILLION)
TABLE 58 REST OF ASIA-PACIFIC: 2D CHROMATOGRAPHY MARKET, BY APPLICATION, 2022–2030 (USD MILLION)
TABLE 59 REST OF ASIA-PACIFIC: 2D CHROMATOGRAPHY MARKET, BY END USER, 2022–2030 (USD MILLION)
TABLE 60 REST OF THE WORLD: 2D CHROMATOGRAPHY MARKET, BY REGION, 2022–2030 (USD MILLION)
TABLE 61 REST OF THE WORLD: 2D CHROMATOGRAPHY MARKET, BY PRODUCT, 2022–2030 (USD MILLION)
TABLE 62 REST OF THE WORLD: 2D CHROMATOGRAPHY MARKET, BY APPLICATION, 2022–2030 (USD MILLION)
TABLE 63 REST OF THE WORLD: 2D CHROMATOGRAPHY MARKET, BY END USER, 2022–2030 (USD MILLION)
TABLE 64 MIDDLE EAST: 2D CHROMATOGRAPHY MARKET, BY PRODUCT, 2022–2030 (USD MILLION)
TABLE 65 MIDDLE EAST: 2D CHROMATOGRAPHY MARKET, BY APPLICATION, 2022–2030 (USD MILLION)
TABLE 66 MIDDLE EAST: 2D CHROMATOGRAPHY MARKET, BY END USER, 2022–2030 (USD MILLION)
TABLE 67 AFRICA: 2D CHROMATOGRAPHY MARKET, BY PRODUCT, 2022–2030 (USD MILLION)
TABLE 68 AFRICA: 2D CHROMATOGRAPHY MARKET, BY APPLICATION, 2022–2030 (USD MILLION)
TABLE 69 AFRICA: 2D CHROMATOGRAPHY MARKET, BY END USER, 2022–2030 (USD MILLION)
TABLE 70 LATIN AMERICA: 2D CHROMATOGRAPHY MARKET, BY PRODUCT, 2022–2030 (USD MILLION)
TABLE 71 LATIN AMERICA: 2D CHROMATOGRAPHY MARKET, BY APPLICATION, 2022–2030 (USD MILLION)
TABLE 72 LATIN AMERICA: 2D CHROMATOGRAPHY MARKET, BY END USER, 2022–2030 (USD MILLION)
LIST OF FIGURES
FIGURE 1 RESEARCH PROCESS
FIGURE 2 MARKET STRUCTURE FOR THE GLOBAL 2D CHROMATOGRAPHY MARKET
FIGURE 3 MARKET DYNAMICS FOR THE GLOBAL 2D CHROMATOGRAPHY MARKET
FIGURE 4 GLOBAL 2D CHROMATOGRAPHY MARKET SHARE, BY PRODUCT, 2020 (%)
FIGURE 5 GLOBAL 2D CHROMATOGRAPHY MARKET SHARE, BY APPLICATION, 2020 (%)
FIGURE 6 GLOBAL 2D CHROMATOGRAPHY MARKET SHARE, BY END USER, 2020 (%)
FIGURE 7 GLOBAL 2D CHROMATOGRAPHY MARKET SHARE, BY REGION, 2020 (%)
FIGURE 8 NORTH AMERICA: 2D CHROMATOGRAPHY MARKET SHARE, BY REGION, 2020 (%)
FIGURE 9 EUROPE: 2D CHROMATOGRAPHY MARKET SHARE, BY REGION, 2020 (%)
FIGURE 10 ASIA-PACIFIC: 2D CHROMATOGRAPHY MARKET SHARE, BY REGION, 2020 (%)
FIGURE 11 REST OF THE WORLD: 2D CHROMATOGRAPHY MARKET SHARE, BY REGION, 2020 (%)
FIGURE 12 GLOBAL 2D CHROMATOGRAPHY MARKET: COMPANY SHARE ANALYSIS, 2020 (%)
FIGURE 13 AGILENT TECHNOLOGIES, INC.: FINANCIAL OVERVIEW
FIGURE 14 AGILENT TECHNOLOGIES, INC.: SWOT ANALYSIS
FIGURE 15 LECO CORPORATION: FINANCIAL OVERVIEW
FIGURE 16 LECO CORPORATION: SWOT ANALYSIS
FIGURE 17 WATERS CORPORATION: FINANCIAL OVERVIEW
FIGURE 18 WATERS CORPORATION: SWOT ANALYSIS
FIGURE 19 SHIMADZU CORPORATION: FINANCIAL OVERVIEW
FIGURE 20 SHIMADZU CORPORATION: SWOT ANALYSIS
FIGURE 21 RESTEK CORPORATION: FINANCIAL OVERVIEW
FIGURE 22 RESTEK CORPORATION: SWOT ANALYSIS
FIGURE 23 SEPSOLVE ANALYTICAL LTD: FINANCIAL OVERVIEW
FIGURE 24 SEPSOLVE ANALYTICAL LTD: SWOT ANALYSIS
FIGURE 25 MERCK KGAA: FINANCIAL OVERVIEW
FIGURE 26 MERCK KGAA: SWOT ANALYSIS
FIGURE 27 DANAHER CORPORATION: FINANCIAL OVERVIEW
FIGURE 28 DANAHER CORPORATION: SWOT ANALYSIS
FIGURE 29 BIO-RAD LABORATORIES, INC.: FINANCIAL OVERVIEW
FIGURE 30 BIO-RAD LABORATORIES, INC.: SWOT ANALYSIS
FIGURE 31 THERMO FISHER SCIENTIFIC: FINANCIAL OVERVIEW

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