

Global Next-Generation Sequencing eDNA Biomonitoring Market 2024 by Company, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Next-Generation Sequencing eDNA Biomonitoring market size was valued at US\$ 23.3 million in 2023 and is forecast to a readjusted size of USD 38.7 million by 2030 with a CAGR of 7.9% during review period.

Next-generation sequencing technology, also known as high-throughput sequencing technology or new generation sequencing technology, can split DNA samples into thousands of tiny fragments, and quickly read them through high-throughput sequencers, and finally splice out a complete DNA sequence. This technology has the advantages of high throughput, low cost and short sequencing cycle, and shows extremely high detection accuracy and sensitivity in genome sequencing and genome monitoring.

High-throughput sequencing technology (i.e., next-generation sequencing technology) has the advantages of high throughput, low cost, and short sequencing cycle, and shows extremely high detection accuracy and sensitivity in genome sequencing and genome monitoring. These technological advances have made DNA biomonitoring more efficient and accurate, thereby driving the growth of the market. On the other hand, with the development of bioinformatics, the ability to analyze and interpret sequencing data is also constantly improving. This helps to extract valuable information from massive sequencing data and provide more accurate data support for environmental monitoring, disease diagnosis, etc.

With the continuous improvement of people's awareness of environmental protection, the demand for monitoring environmental DNA (eDNA) is also increasing. By monitoring DNA in the environment, we can understand the health of the ecosystem and promptly detect and respond to potential ecological problems. In the medical field, DNA

sequencing technology is also widely used in disease diagnosis and prevention. By sequencing and analyzing individual genomes, the risk of individual illness can be predicted, providing strong support for early prevention and treatment of diseases. This demand has also driven the development of the next-generation sequencing environmental DNA biomonitoring market.

Although next-generation sequencing technology has made significant progress, there are still some technical challenges and limitations. For example, the accuracy and sensitivity of sequencing need to be further improved to better meet the needs of environmental monitoring and disease diagnosis. The amount of data generated by sequencing is huge, and contains a lot of redundant and erroneous information. How to extract valuable information from massive data is a technical problem currently faced. In addition, data analysis also requires professional knowledge and skills, which increases the complexity and cost of the operation.

In addition, although the cost of next-generation sequencing technology has been greatly reduced, it is still a considerable expense for some small laboratories or research institutions. The high cost of sequencing limits the widespread application and promotion of the technology.

Although the next-generation sequencing environmental DNA biomonitoring technology has broad application prospects, the current market awareness of it is not high. Some potential customers may take a wait-and-see attitude towards this new technology, waiting for it to further mature and popularize. Customers in different fields and industries have different acceptance of technology. Some fields may prefer to adopt traditional monitoring methods and technologies, and are less willing to try new sequencing technologies.

This report is a detailed and comprehensive analysis for global Next-Generation Sequencing eDNA Biomonitoring market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2024, are provided.

Key Features:

Global Next-Generation Sequencing eDNA Biomonitoring market size and forecasts, in consumption value (\$ Million), 2019-2030

Global Next-Generation Sequencing eDNA Biomonitoring market size and forecasts by region and country, in consumption value (\$ Million), 2019-2030

Global Next-Generation Sequencing eDNA Biomonitoring market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2019-2030

Global Next-Generation Sequencing eDNA Biomonitoring market shares of main players, in revenue (\$ Million), 2019-2024

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Next-Generation Sequencing eDNA Biomonitoring

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Next-Generation Sequencing eDNA Biomonitoring market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Illumina, Inc, Stantec, Eurofins Genomics, Spygen, ID-Gene Ecardiagnostics, EnviroDNA, eDNAtec, Genidaqs, NatureMetrics, Jonah Ventures, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

Next-Generation Sequencing eDNA Biomonitoring market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

- Targeted Sequencing & Resequencing
- Whole Genome Sequencing
- Whole Exome Sequencing

Market segment by Application

- Water
- Soil
- Air
- Others

Market segment by players, this report covers

- Illumina, Inc
- Stantec
- Eurofins Genomics
- Spygen
- ID-Gene Ecordiagnosics
- EnviroDNA
- eDNAtec
- Genidaqs
- NatureMetrics
- Jonah Ventures
- Sinsoma GmbH
- SimplexDNA

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Next-Generation Sequencing eDNA Biomonitoring product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Next-Generation Sequencing eDNA Biomonitoring, with revenue, gross margin, and global market share of Next-Generation Sequencing eDNA Biomonitoring from 2019 to 2024.

Chapter 3, the Next-Generation Sequencing eDNA Biomonitoring competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2019 to 2030.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2019 to 2024. and Next-Generation Sequencing eDNA Biomonitoring market forecast, by regions, by Type and by Application, with consumption value, from 2025 to 2030.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Next-Generation Sequencing eDNA Biomonitoring.

Chapter 13, to describe Next-Generation Sequencing eDNA Biomonitoring research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Classification of Next-Generation Sequencing eDNA Biomonitoring by Type

1.3.1 Overview: Global Next-Generation Sequencing eDNA Biomonitoring Market Size by Type: 2019 Versus 2023 Versus 2030

1.3.2 Global Next-Generation Sequencing eDNA Biomonitoring Consumption Value Market Share by Type in 2023

1.3.3 Targeted Sequencing & Resequencing

1.3.4 Whole Genome Sequencing

1.3.5 Whole Exome Sequencing

1.4 Global Next-Generation Sequencing eDNA Biomonitoring Market by Application

1.4.1 Overview: Global Next-Generation Sequencing eDNA Biomonitoring Market Size by Application: 2019 Versus 2023 Versus 2030

1.4.2 Water

1.4.3 Soil

1.4.4 Air

1.4.5 Others

1.5 Global Next-Generation Sequencing eDNA Biomonitoring Market Size & Forecast

1.6 Global Next-Generation Sequencing eDNA Biomonitoring Market Size and Forecast by Region

1.6.1 Global Next-Generation Sequencing eDNA Biomonitoring Market Size by Region: 2019 VS 2023 VS 2030

1.6.2 Global Next-Generation Sequencing eDNA Biomonitoring Market Size by Region, (2019-2030)

1.6.3 North America Next-Generation Sequencing eDNA Biomonitoring Market Size and Prospect (2019-2030)

1.6.4 Europe Next-Generation Sequencing eDNA Biomonitoring Market Size and Prospect (2019-2030)

1.6.5 Asia-Pacific Next-Generation Sequencing eDNA Biomonitoring Market Size and Prospect (2019-2030)

1.6.6 South America Next-Generation Sequencing eDNA Biomonitoring Market Size and Prospect (2019-2030)

1.6.7 Middle East & Africa Next-Generation Sequencing eDNA Biomonitoring Market Size and Prospect (2019-2030)

2 COMPANY PROFILES

2.1 Illumina, Inc

2.1.1 Illumina, Inc Details

2.1.2 Illumina, Inc Major Business

2.1.3 Illumina, Inc Next-Generation Sequencing eDNA Biomonitoring Product and Solutions

2.1.4 Illumina, Inc Next-Generation Sequencing eDNA Biomonitoring Revenue, Gross Margin and Market Share (2019-2024)

2.1.5 Illumina, Inc Recent Developments and Future Plans

2.2 Stantec

2.2.1 Stantec Details

2.2.2 Stantec Major Business

2.2.3 Stantec Next-Generation Sequencing eDNA Biomonitoring Product and Solutions

2.2.4 Stantec Next-Generation Sequencing eDNA Biomonitoring Revenue, Gross Margin and Market Share (2019-2024)

2.2.5 Stantec Recent Developments and Future Plans

2.3 Eurofins Genomics

2.3.1 Eurofins Genomics Details

2.3.2 Eurofins Genomics Major Business

2.3.3 Eurofins Genomics Next-Generation Sequencing eDNA Biomonitoring Product and Solutions

2.3.4 Eurofins Genomics Next-Generation Sequencing eDNA Biomonitoring Revenue, Gross Margin and Market Share (2019-2024)

2.3.5 Eurofins Genomics Recent Developments and Future Plans

2.4 Spygen

2.4.1 Spygen Details

2.4.2 Spygen Major Business

2.4.3 Spygen Next-Generation Sequencing eDNA Biomonitoring Product and Solutions

2.4.4 Spygen Next-Generation Sequencing eDNA Biomonitoring Revenue, Gross Margin and Market Share (2019-2024)

2.4.5 Spygen Recent Developments and Future Plans

2.5 ID-Gene Ecordiagnosics

2.5.1 ID-Gene Ecordiagnosics Details

2.5.2 ID-Gene Ecordiagnosics Major Business

2.5.3 ID-Gene Ecordiagnosics Next-Generation Sequencing eDNA Biomonitoring Product and Solutions

2.5.4 ID-Gene Ecordiagnosics Next-Generation Sequencing eDNA Biomonitoring Revenue, Gross Margin and Market Share (2019-2024)

2.5.5 ID-Gene Ecordiagnosics Recent Developments and Future Plans

2.6 EnviroDNA

2.6.1 EnviroDNA Details

2.6.2 EnviroDNA Major Business

2.6.3 EnviroDNA Next-Generation Sequencing eDNA Biomonitoring Product and Solutions

2.6.4 EnviroDNA Next-Generation Sequencing eDNA Biomonitoring Revenue, Gross Margin and Market Share (2019-2024)

2.6.5 EnviroDNA Recent Developments and Future Plans

2.7 eDNAtec

2.7.1 eDNAtec Details

2.7.2 eDNAtec Major Business

2.7.3 eDNAtec Next-Generation Sequencing eDNA Biomonitoring Product and Solutions

2.7.4 eDNAtec Next-Generation Sequencing eDNA Biomonitoring Revenue, Gross Margin and Market Share (2019-2024)

2.7.5 eDNAtec Recent Developments and Future Plans

2.8 Genidaqs

2.8.1 Genidaqs Details

2.8.2 Genidaqs Major Business

2.8.3 Genidaqs Next-Generation Sequencing eDNA Biomonitoring Product and Solutions

2.8.4 Genidaqs Next-Generation Sequencing eDNA Biomonitoring Revenue, Gross Margin and Market Share (2019-2024)

2.8.5 Genidaqs Recent Developments and Future Plans

2.9 NatureMetrics

2.9.1 NatureMetrics Details

2.9.2 NatureMetrics Major Business

2.9.3 NatureMetrics Next-Generation Sequencing eDNA Biomonitoring Product and Solutions

2.9.4 NatureMetrics Next-Generation Sequencing eDNA Biomonitoring Revenue, Gross Margin and Market Share (2019-2024)

2.9.5 NatureMetrics Recent Developments and Future Plans

2.10 Jonah Ventures

2.10.1 Jonah Ventures Details

2.10.2 Jonah Ventures Major Business

2.10.3 Jonah Ventures Next-Generation Sequencing eDNA Biomonitoring Product and

Solutions

2.10.4 Jonah Ventures Next-Generation Sequencing eDNA Biomonitoring Revenue, Gross Margin and Market Share (2019-2024)

2.10.5 Jonah Ventures Recent Developments and Future Plans

2.11 Sinsoma GmbH

2.11.1 Sinsoma GmbH Details

2.11.2 Sinsoma GmbH Major Business

2.11.3 Sinsoma GmbH Next-Generation Sequencing eDNA Biomonitoring Product and Solutions

2.11.4 Sinsoma GmbH Next-Generation Sequencing eDNA Biomonitoring Revenue, Gross Margin and Market Share (2019-2024)

2.11.5 Sinsoma GmbH Recent Developments and Future Plans

2.12 SimplexDNA

2.12.1 SimplexDNA Details

2.12.2 SimplexDNA Major Business

2.12.3 SimplexDNA Next-Generation Sequencing eDNA Biomonitoring Product and Solutions

2.12.4 SimplexDNA Next-Generation Sequencing eDNA Biomonitoring Revenue, Gross Margin and Market Share (2019-2024)

2.12.5 SimplexDNA Recent Developments and Future Plans

3 MARKET COMPETITION, BY PLAYERS

3.1 Global Next-Generation Sequencing eDNA Biomonitoring Revenue and Share by Players (2019-2024)

3.2 Market Share Analysis (2023)

3.2.1 Market Share of Next-Generation Sequencing eDNA Biomonitoring by Company Revenue

3.2.2 Top 3 Next-Generation Sequencing eDNA Biomonitoring Players Market Share in 2023

3.2.3 Top 6 Next-Generation Sequencing eDNA Biomonitoring Players Market Share in 2023

3.3 Next-Generation Sequencing eDNA Biomonitoring Market: Overall Company Footprint Analysis

3.3.1 Next-Generation Sequencing eDNA Biomonitoring Market: Region Footprint

3.3.2 Next-Generation Sequencing eDNA Biomonitoring Market: Company Product Type Footprint

3.3.3 Next-Generation Sequencing eDNA Biomonitoring Market: Company Product Application Footprint

- 3.4 New Market Entrants and Barriers to Market Entry
- 3.5 Mergers, Acquisition, Agreements, and Collaborations

4 MARKET SIZE SEGMENT BY TYPE

- 4.1 Global Next-Generation Sequencing eDNA Biomonitoring Consumption Value and Market Share by Type (2019-2024)
- 4.2 Global Next-Generation Sequencing eDNA Biomonitoring Market Forecast by Type (2025-2030)

5 MARKET SIZE SEGMENT BY APPLICATION

- 5.1 Global Next-Generation Sequencing eDNA Biomonitoring Consumption Value Market Share by Application (2019-2024)
- 5.2 Global Next-Generation Sequencing eDNA Biomonitoring Market Forecast by Application (2025-2030)

6 NORTH AMERICA

- 6.1 North America Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Type (2019-2030)
- 6.2 North America Next-Generation Sequencing eDNA Biomonitoring Market Size by Application (2019-2030)
- 6.3 North America Next-Generation Sequencing eDNA Biomonitoring Market Size by Country
 - 6.3.1 North America Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Country (2019-2030)
 - 6.3.2 United States Next-Generation Sequencing eDNA Biomonitoring Market Size and Forecast (2019-2030)
 - 6.3.3 Canada Next-Generation Sequencing eDNA Biomonitoring Market Size and Forecast (2019-2030)
 - 6.3.4 Mexico Next-Generation Sequencing eDNA Biomonitoring Market Size and Forecast (2019-2030)

7 EUROPE

- 7.1 Europe Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Type (2019-2030)
- 7.2 Europe Next-Generation Sequencing eDNA Biomonitoring Consumption Value by

Application (2019-2030)

7.3 Europe Next-Generation Sequencing eDNA Biomonitoring Market Size by Country

7.3.1 Europe Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Country (2019-2030)

7.3.2 Germany Next-Generation Sequencing eDNA Biomonitoring Market Size and Forecast (2019-2030)

7.3.3 France Next-Generation Sequencing eDNA Biomonitoring Market Size and Forecast (2019-2030)

7.3.4 United Kingdom Next-Generation Sequencing eDNA Biomonitoring Market Size and Forecast (2019-2030)

7.3.5 Russia Next-Generation Sequencing eDNA Biomonitoring Market Size and Forecast (2019-2030)

7.3.6 Italy Next-Generation Sequencing eDNA Biomonitoring Market Size and Forecast (2019-2030)

8 ASIA-PACIFIC

8.1 Asia-Pacific Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Type (2019-2030)

8.2 Asia-Pacific Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Application (2019-2030)

8.3 Asia-Pacific Next-Generation Sequencing eDNA Biomonitoring Market Size by Region

8.3.1 Asia-Pacific Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Region (2019-2030)

8.3.2 China Next-Generation Sequencing eDNA Biomonitoring Market Size and Forecast (2019-2030)

8.3.3 Japan Next-Generation Sequencing eDNA Biomonitoring Market Size and Forecast (2019-2030)

8.3.4 South Korea Next-Generation Sequencing eDNA Biomonitoring Market Size and Forecast (2019-2030)

8.3.5 India Next-Generation Sequencing eDNA Biomonitoring Market Size and Forecast (2019-2030)

8.3.6 Southeast Asia Next-Generation Sequencing eDNA Biomonitoring Market Size and Forecast (2019-2030)

8.3.7 Australia Next-Generation Sequencing eDNA Biomonitoring Market Size and Forecast (2019-2030)

9 SOUTH AMERICA

9.1 South America Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Type (2019-2030)

9.2 South America Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Application (2019-2030)

9.3 South America Next-Generation Sequencing eDNA Biomonitoring Market Size by Country

9.3.1 South America Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Country (2019-2030)

9.3.2 Brazil Next-Generation Sequencing eDNA Biomonitoring Market Size and Forecast (2019-2030)

9.3.3 Argentina Next-Generation Sequencing eDNA Biomonitoring Market Size and Forecast (2019-2030)

10 MIDDLE EAST & AFRICA

10.1 Middle East & Africa Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Type (2019-2030)

10.2 Middle East & Africa Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Application (2019-2030)

10.3 Middle East & Africa Next-Generation Sequencing eDNA Biomonitoring Market Size by Country

10.3.1 Middle East & Africa Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Country (2019-2030)

10.3.2 Turkey Next-Generation Sequencing eDNA Biomonitoring Market Size and Forecast (2019-2030)

10.3.3 Saudi Arabia Next-Generation Sequencing eDNA Biomonitoring Market Size and Forecast (2019-2030)

10.3.4 UAE Next-Generation Sequencing eDNA Biomonitoring Market Size and Forecast (2019-2030)

11 MARKET DYNAMICS

11.1 Next-Generation Sequencing eDNA Biomonitoring Market Drivers

11.2 Next-Generation Sequencing eDNA Biomonitoring Market Restraints

11.3 Next-Generation Sequencing eDNA Biomonitoring Trends Analysis

11.4 Porters Five Forces Analysis

11.4.1 Threat of New Entrants

11.4.2 Bargaining Power of Suppliers

11.4.3 Bargaining Power of Buyers

11.4.4 Threat of Substitutes

11.4.5 Competitive Rivalry

12 INDUSTRY CHAIN ANALYSIS

12.1 Next-Generation Sequencing eDNA Biomonitoring Industry Chain

12.2 Next-Generation Sequencing eDNA Biomonitoring Upstream Analysis

12.3 Next-Generation Sequencing eDNA Biomonitoring Midstream Analysis

12.4 Next-Generation Sequencing eDNA Biomonitoring Downstream Analysis

13 RESEARCH FINDINGS AND CONCLUSION

14 APPENDIX

14.1 Methodology

14.2 Research Process and Data Source

14.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. Global Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Type, (USD Million), 2019 & 2023 & 2030
- Table 2. Global Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Application, (USD Million), 2019 & 2023 & 2030
- Table 3. Global Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Region (2019-2024) & (USD Million)
- Table 4. Global Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Region (2025-2030) & (USD Million)
- Table 5. Illumina, Inc Company Information, Head Office, and Major Competitors
- Table 6. Illumina, Inc Major Business
- Table 7. Illumina, Inc Next-Generation Sequencing eDNA Biomonitoring Product and Solutions
- Table 8. Illumina, Inc Next-Generation Sequencing eDNA Biomonitoring Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 9. Illumina, Inc Recent Developments and Future Plans
- Table 10. Stantec Company Information, Head Office, and Major Competitors
- Table 11. Stantec Major Business
- Table 12. Stantec Next-Generation Sequencing eDNA Biomonitoring Product and Solutions
- Table 13. Stantec Next-Generation Sequencing eDNA Biomonitoring Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 14. Stantec Recent Developments and Future Plans
- Table 15. Eurofins Genomics Company Information, Head Office, and Major Competitors
- Table 16. Eurofins Genomics Major Business
- Table 17. Eurofins Genomics Next-Generation Sequencing eDNA Biomonitoring Product and Solutions
- Table 18. Eurofins Genomics Next-Generation Sequencing eDNA Biomonitoring Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 19. Spygen Company Information, Head Office, and Major Competitors
- Table 20. Spygen Major Business
- Table 21. Spygen Next-Generation Sequencing eDNA Biomonitoring Product and Solutions
- Table 22. Spygen Next-Generation Sequencing eDNA Biomonitoring Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 23. Spygen Recent Developments and Future Plans

Table 24. ID-Gene Ecardiagnostics Company Information, Head Office, and Major Competitors

Table 25. ID-Gene Ecardiagnostics Major Business

Table 26. ID-Gene Ecardiagnostics Next-Generation Sequencing eDNA Biomonitoring Product and Solutions

Table 27. ID-Gene Ecardiagnostics Next-Generation Sequencing eDNA Biomonitoring Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 28. ID-Gene Ecardiagnostics Recent Developments and Future Plans

Table 29. EnviroDNA Company Information, Head Office, and Major Competitors

Table 30. EnviroDNA Major Business

Table 31. EnviroDNA Next-Generation Sequencing eDNA Biomonitoring Product and Solutions

Table 32. EnviroDNA Next-Generation Sequencing eDNA Biomonitoring Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 33. EnviroDNA Recent Developments and Future Plans

Table 34. eDNAtec Company Information, Head Office, and Major Competitors

Table 35. eDNAtec Major Business

Table 36. eDNAtec Next-Generation Sequencing eDNA Biomonitoring Product and Solutions

Table 37. eDNAtec Next-Generation Sequencing eDNA Biomonitoring Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 38. eDNAtec Recent Developments and Future Plans

Table 39. Genidaqs Company Information, Head Office, and Major Competitors

Table 40. Genidaqs Major Business

Table 41. Genidaqs Next-Generation Sequencing eDNA Biomonitoring Product and Solutions

Table 42. Genidaqs Next-Generation Sequencing eDNA Biomonitoring Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 43. Genidaqs Recent Developments and Future Plans

Table 44. NatureMetrics Company Information, Head Office, and Major Competitors

Table 45. NatureMetrics Major Business

Table 46. NatureMetrics Next-Generation Sequencing eDNA Biomonitoring Product and Solutions

Table 47. NatureMetrics Next-Generation Sequencing eDNA Biomonitoring Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 48. NatureMetrics Recent Developments and Future Plans

Table 49. Jonah Ventures Company Information, Head Office, and Major Competitors

Table 50. Jonah Ventures Major Business

Table 51. Jonah Ventures Next-Generation Sequencing eDNA Biomonitoring Product and Solutions

Table 52. Jonah Ventures Next-Generation Sequencing eDNA Biomonitoring Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 53. Jonah Ventures Recent Developments and Future Plans

Table 54. Sinsoma GmbH Company Information, Head Office, and Major Competitors

Table 55. Sinsoma GmbH Major Business

Table 56. Sinsoma GmbH Next-Generation Sequencing eDNA Biomonitoring Product and Solutions

Table 57. Sinsoma GmbH Next-Generation Sequencing eDNA Biomonitoring Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 58. Sinsoma GmbH Recent Developments and Future Plans

Table 59. SimplexDNA Company Information, Head Office, and Major Competitors

Table 60. SimplexDNA Major Business

Table 61. SimplexDNA Next-Generation Sequencing eDNA Biomonitoring Product and Solutions

Table 62. SimplexDNA Next-Generation Sequencing eDNA Biomonitoring Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 63. SimplexDNA Recent Developments and Future Plans

Table 64. Global Next-Generation Sequencing eDNA Biomonitoring Revenue (USD Million) by Players (2019-2024)

Table 65. Global Next-Generation Sequencing eDNA Biomonitoring Revenue Share by Players (2019-2024)

Table 66. Breakdown of Next-Generation Sequencing eDNA Biomonitoring by Company Type (Tier 1, Tier 2, and Tier 3)

Table 67. Market Position of Players in Next-Generation Sequencing eDNA Biomonitoring, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2023

Table 68. Head Office of Key Next-Generation Sequencing eDNA Biomonitoring Players

Table 69. Next-Generation Sequencing eDNA Biomonitoring Market: Company Product Type Footprint

Table 70. Next-Generation Sequencing eDNA Biomonitoring Market: Company Product Application Footprint

Table 71. Next-Generation Sequencing eDNA Biomonitoring New Market Entrants and Barriers to Market Entry

Table 72. Next-Generation Sequencing eDNA Biomonitoring Mergers, Acquisition, Agreements, and Collaborations

Table 73. Global Next-Generation Sequencing eDNA Biomonitoring Consumption Value (USD Million) by Type (2019-2024)

Table 74. Global Next-Generation Sequencing eDNA Biomonitoring Consumption Value

Share by Type (2019-2024)

Table 75. Global Next-Generation Sequencing eDNA Biomonitoring Consumption Value Forecast by Type (2025-2030)

Table 76. Global Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Application (2019-2024)

Table 77. Global Next-Generation Sequencing eDNA Biomonitoring Consumption Value Forecast by Application (2025-2030)

Table 78. North America Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Type (2019-2024) & (USD Million)

Table 79. North America Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Type (2025-2030) & (USD Million)

Table 80. North America Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Application (2019-2024) & (USD Million)

Table 81. North America Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Application (2025-2030) & (USD Million)

Table 82. North America Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Country (2019-2024) & (USD Million)

Table 83. North America Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Country (2025-2030) & (USD Million)

Table 84. Europe Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Type (2019-2024) & (USD Million)

Table 85. Europe Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Type (2025-2030) & (USD Million)

Table 86. Europe Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Application (2019-2024) & (USD Million)

Table 87. Europe Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Application (2025-2030) & (USD Million)

Table 88. Europe Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Country (2019-2024) & (USD Million)

Table 89. Europe Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Country (2025-2030) & (USD Million)

Table 90. Asia-Pacific Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Type (2019-2024) & (USD Million)

Table 91. Asia-Pacific Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Type (2025-2030) & (USD Million)

Table 92. Asia-Pacific Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Application (2019-2024) & (USD Million)

Table 93. Asia-Pacific Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Application (2025-2030) & (USD Million)

Table 94. Asia-Pacific Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Region (2019-2024) & (USD Million)

Table 95. Asia-Pacific Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Region (2025-2030) & (USD Million)

Table 96. South America Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Type (2019-2024) & (USD Million)

Table 97. South America Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Type (2025-2030) & (USD Million)

Table 98. South America Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Application (2019-2024) & (USD Million)

Table 99. South America Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Application (2025-2030) & (USD Million)

Table 100. South America Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Country (2019-2024) & (USD Million)

Table 101. South America Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Country (2025-2030) & (USD Million)

Table 102. Middle East & Africa Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Type (2019-2024) & (USD Million)

Table 103. Middle East & Africa Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Type (2025-2030) & (USD Million)

Table 104. Middle East & Africa Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Application (2019-2024) & (USD Million)

Table 105. Middle East & Africa Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Application (2025-2030) & (USD Million)

Table 106. Middle East & Africa Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Country (2019-2024) & (USD Million)

Table 107. Middle East & Africa Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Country (2025-2030) & (USD Million)

Table 108. Global Key Players of Next-Generation Sequencing eDNA Biomonitoring Upstream (Raw Materials)

Table 109. Global Next-Generation Sequencing eDNA Biomonitoring Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Next-Generation Sequencing eDNA Biomonitoring Picture
- Figure 2. Global Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Type, (USD Million), 2019 & 2023 & 2030
- Figure 3. Global Next-Generation Sequencing eDNA Biomonitoring Consumption Value Market Share by Type in 2023
- Figure 4. Targeted Sequencing & Resequencing
- Figure 5. Whole Genome Sequencing
- Figure 6. Whole Exome Sequencing
- Figure 7. Global Next-Generation Sequencing eDNA Biomonitoring Consumption Value by Application, (USD Million), 2019 & 2023 & 2030
- Figure 8. Next-Generation Sequencing eDNA Biomonitoring Consumption Value Market Share by Application in 2023
- Figure 9. Water Picture
- Figure 10. Soil Picture
- Figure 11. Air Picture
- Figure 12. Others Picture
- Figure 13. Global Next-Generation Sequencing eDNA Biomonitoring Consumption Value, (USD Million): 2019 & 2023 & 2030
- Figure 14. Global Next-Generation Sequencing eDNA Biomonitoring Consumption Value and Forecast (2019-2030) & (USD Million)
- Figure 15. Global Market Next-Generation Sequencing eDNA Biomonitoring Consumption Value (USD Million) Comparison by Region (2019 VS 2023 VS 2030)
- Figure 16. Global Next-Generation Sequencing eDNA Biomonitoring Consumption Value Market Share by Region (2019-2030)
- Figure 17. Global Next-Generation Sequencing eDNA Biomonitoring Consumption Value Market Share by Region in 2023
- Figure 18. North America Next-Generation Sequencing eDNA Biomonitoring Consumption Value (2019-2030) & (USD Million)
- Figure 19. Europe Next-Generation Sequencing eDNA Biomonitoring Consumption Value (2019-2030) & (USD Million)
- Figure 20. Asia-Pacific Next-Generation Sequencing eDNA Biomonitoring Consumption Value (2019-2030) & (USD Million)
- Figure 21. South America Next-Generation Sequencing eDNA Biomonitoring Consumption Value (2019-2030) & (USD Million)
- Figure 22. Middle East & Africa Next-Generation Sequencing eDNA Biomonitoring

Consumption Value (2019-2030) & (USD Million)

Figure 23. Company Three Recent Developments and Future Plans

Figure 24. Global Next-Generation Sequencing eDNA Biomonitoring Revenue Share by Players in 2023

Figure 25. Next-Generation Sequencing eDNA Biomonitoring Market Share by Company Type (Tier 1, Tier 2, and Tier 3) in 2023

Figure 26. Market Share of Next-Generation Sequencing eDNA Biomonitoring by Player Revenue in 2023

Figure 27. Top 3 Next-Generation Sequencing eDNA Biomonitoring Players Market Share in 2023

Figure 28. Top 6 Next-Generation Sequencing eDNA Biomonitoring Players Market Share in 2023

Figure 29. Global Next-Generation Sequencing eDNA Biomonitoring Consumption Value Share by Type (2019-2024)

Figure 30. Global Next-Generation Sequencing eDNA Biomonitoring Market Share Forecast by Type (2025-2030)

Figure 31. Global Next-Generation Sequencing eDNA Biomonitoring Consumption Value Share by Application (2019-2024)

Figure 32. Global Next-Generation Sequencing eDNA Biomonitoring Market Share Forecast by Application (2025-2030)

Figure 33. North America Next-Generation Sequencing eDNA Biomonitoring Consumption Value Market Share by Type (2019-2030)

Figure 34. North America Next-Generation Sequencing eDNA Biomonitoring Consumption Value Market Share by Application (2019-2030)

Figure 35. North America Next-Generation Sequencing eDNA Biomonitoring Consumption Value Market Share by Country (2019-2030)

Figure 36. United States Next-Generation Sequencing eDNA Biomonitoring Consumption Value (2019-2030) & (USD Million)

Figure 37. Canada Next-Generation Sequencing eDNA Biomonitoring Consumption Value (2019-2030) & (USD Million)

Figure 38. Mexico Next-Generation Sequencing eDNA Biomonitoring Consumption Value (2019-2030) & (USD Million)

Figure 39. Europe Next-Generation Sequencing eDNA Biomonitoring Consumption Value Market Share by Type (2019-2030)

Figure 40. Europe Next-Generation Sequencing eDNA Biomonitoring Consumption Value Market Share by Application (2019-2030)

Figure 41. Europe Next-Generation Sequencing eDNA Biomonitoring Consumption Value Market Share by Country (2019-2030)

Figure 42. Germany Next-Generation Sequencing eDNA Biomonitoring Consumption

Value (2019-2030) & (USD Million)

Figure 43. France Next-Generation Sequencing eDNA Biomonitoring Consumption

Value (2019-2030) & (USD Million)

Figure 44. United Kingdom Next-Generation Sequencing eDNA Biomonitoring

Consumption Value (2019-2030) & (USD Million)

Figure 45. Russia Next-Generation Sequencing eDNA Biomonitoring Consumption

Value (2019-2030) & (USD Million)

Figure 46. Italy Next-Generation Sequencing eDNA Biomonitoring Consumption Value

(2019-2030) & (USD Million)

Figure 47. Asia-Pacific Next-Generation Sequencing eDNA Biomonitoring Consumption

Value Market Share by Type (2019-2030)

Figure 48. Asia-Pacific Next-Generation Sequencing eDNA Biomonitoring Consumption

Value Market Share by Application (2019-2030)

Figure 49. Asia-Pacific Next-Generation Sequencing eDNA Biomonitoring Consumption

Value Market Share by Region (2019-2030)

Figure 50. China Next-Generation Sequencing eDNA Biomonitoring Consumption Value

(2019-2030) & (USD Million)

Figure 51. Japan Next-Generation Sequencing eDNA Biomonitoring Consumption

Value (2019-2030) & (USD Million)

Figure 52. South Korea Next-Generation Sequencing eDNA Biomonitoring

Consumption Value (2019-2030) & (USD Million)

Figure 53. India Next-Generation Sequencing eDNA Biomonitoring Consumption Value

(2019-2030) & (USD Million)

Figure 54. Southeast Asia Next-Generation Sequencing eDNA Biomonitoring

Consumption Value (2019-2030) & (USD Million)

Figure 55. Australia Next-Generation Sequencing eDNA Biomonitoring Consumption

Value (2019-2030) & (USD Million)

Figure 56. South America Next-Generation Sequencing eDNA Biomonitoring

Consumption Value Market Share by Type (2019-2030)

Figure 57. South America Next-Generation Sequencing eDNA Biomonitoring

Consumption Value Market Share by Application (2019-2030)

Figure 58. South America Next-Generation Sequencing eDNA Biomonitoring

Consumption Value Market Share by Country (2019-2030)

Figure 59. Brazil Next-Generation Sequencing eDNA Biomonitoring Consumption Value

(2019-2030) & (USD Million)

Figure 60. Argentina Next-Generation Sequencing eDNA Biomonitoring Consumption

Value (2019-2030) & (USD Million)

Figure 61. Middle East & Africa Next-Generation Sequencing eDNA Biomonitoring

Consumption Value Market Share by Type (2019-2030)

Figure 62. Middle East & Africa Next-Generation Sequencing eDNA Biomonitoring Consumption Value Market Share by Application (2019-2030)

Figure 63. Middle East & Africa Next-Generation Sequencing eDNA Biomonitoring Consumption Value Market Share by Country (2019-2030)

Figure 64. Turkey Next-Generation Sequencing eDNA Biomonitoring Consumption Value (2019-2030) & (USD Million)

Figure 65. Saudi Arabia Next-Generation Sequencing eDNA Biomonitoring Consumption Value (2019-2030) & (USD Million)

Figure 66. UAE Next-Generation Sequencing eDNA Biomonitoring Consumption Value (2019-2030) & (USD Million)

Figure 67. Next-Generation Sequencing eDNA Biomonitoring Market Drivers

Figure 68. Next-Generation Sequencing eDNA Biomonitoring Market Restraints

Figure 69. Next-Generation Sequencing eDNA Biomonitoring Market Trends

Figure 70. Porters Five Forces Analysis

Figure 71. Next-Generation Sequencing eDNA Biomonitoring Industrial Chain

Figure 72. Methodology

Figure 73. Research Process and Data Source

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