

NGS Kits Market: Distribution by Type of Nucleotide Sequenced (DNA and RNA), Type of End User (Academic and Research Institutes, Pharmaceutical and Biotechnology Companies, Hospitals and Clinics, and Others) and Key Geographies (North America, Europe, Asia Pacific, Latin America, Middle East and North Africa, and Rest of the World) – Industry Trends and Global Forecasts, 2022-2035

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Abstracts

The NGS kits market is expected to reach USD 11.5 billion in 2035 anticipated to grow at a significant growth rate during the period 2022-2035.

The realm of genomic data acquisition and analysis has undergone remarkable evolution since Frederick Sanger's introduction of gene sequencing in 1977. The advent of DNA sequencing technologies, notably the emergence of next-generation sequencing (NGS) methodologies and testing kits, has fundamentally transformed healthcare research. These advancements have facilitated swifter and more cost-effective whole genome and whole exome sequencing processes. Initially priced in the billions, the cost of sequencing an individual genome has dramatically plummeted to approximately \$1,000, with forecasts predicting a further decline to \$100 owing to ongoing innovations.

Despite these remarkable strides, challenges endure in nucleotide library preparation. Issues such as demanding input samples, low yield, and concerns regarding quality persist. The manual nature of this process remains time-intensive and financially burdensome. As a response, a promising solution has emerged in the form of NGS library preparation kits. These kits necessitate less input material while generating

precise libraries with fewer errors. The market has witnessed the introduction of over 280 such kits, compatible with various sequencing platforms, underscoring continual innovation within the field, marked by the filing and granting of over 3,200 patents. The NGS library preparation kits market is poised for consistent growth due to the increasing demands in gene therapy and the continuous enhancements in NGS techniques.

Report Coverage

Executive summary provides concise insights from the report about the NGS library preparation kits market, offering short, mid, and long-term perspectives.

An introduction to genome sequencing types and details NGS procedures, advantages, applications in pharmaceuticals, and available kit components.

Market landscape review offers a comprehensive review of the current NGS library preparation kits market, covering various aspects like nucleotide sequence, kit components, sample quantity, turnaround time, etc.

Competitiveness analysis analyzes the competitiveness of NGS library preparation kits based on supplier power and product competitiveness.

North American company profiles prominent NGS library preparation kit companies in North America, including their portfolios, financials, recent developments, and future outlook.

European company profiles notable NGS library preparation kit companies in Europe.

Asia Pacific company profiles significant NGS library preparation kit companies in the Asia Pacific region.

Patent analysis provides an in-depth analysis of patents related to NGS library preparation kits from 2020 to 2021, covering various aspects like geographical region, focus areas, applicants, and industry players.

Market forecast delivers a comprehensive market forecast analysis until 2035, segmenting opportunities based on nucleotide sequenced, end-users, and key geographies, supported by credible data.

Genome sequencing evolution offers a historical perspective on genome sequencing evolution, detailing NGS technologies available till date, and profiling NGS service providers.

Summary summarizes the report by listing key takeaways and expressing an independent opinion on the research and analysis presented in the previous chapters.

Interview transcripts collect interview details with key stakeholders in the market, presenting the discussion held with Len Goren, General Manager of Tecan.

Key Market Companies

Agilent Technologies

BioDynami

Creative Biogene

New England Biolabs

PerkinElmer

Thermo Fisher Scientific

Contents

1. PREFACE

- 1.1. Scope of the Report
- 1.2. Research Methodology
- 1.3. Key Questions Answered
- 1.4. Chapter Outlines

2. EXECUTIVE SUMMARY

3. INTRODUCTION

3 INTRODUCTION

- 3.1. Chapter Overview
- 3.2. Overview of Genome Sequencing
- 3.3. Types of Genome Sequencing
 - 3.3.1. Next Generation Sequencing
 - 3.3.1.1. Applications of Next Generation Sequencing
 - 3.3.1.1.1. Cancer and Affiliated Biomarker Research
 - 3.3.1.1.2. Diagnostics
 - 3.3.1.1.3. Personalized / Precision Medicine
 - 3.3.1.1.4. Forensics
 - 3.3.1.2. Steps Involved in Next Generation Sequencing
 - 3.3.1.2.1. Library Preparation
 - 3.3.1.2.2. Amplification
 - 3.3.1.2.3. Sequencing
 - 3.3.1.2.4. Bioinformatics Analysis and Data Interpretation
 - 3.3.1.3. Components of Next Generation Sequencing Kits
 - 3.3.2. Sanger Sequencing
- 3.4. Future Perspectives

4. MARKET LANDSCAPE

- 4.1. Chapter Overview
- 4.2. Next Generation Sequencing Kits: Overall Market Landscape
 - 4.2.1. Analysis by Type of Nucleotide Sequenced
 - 4.2.2. Analysis by Kit Components
 - 4.2.3. Analysis by Quantity of Sample Required

- 4.2.4. Analysis by Turnaround Time
- 4.2.5. Analysis by Storage Temperature
- 4.2.6. Analysis by Type of Sample Used
- 4.2.7. Analysis by Kit Shelf Life
- 4.2.8. Analysis by Type of Sequencing
- 4.2.9. Analysis by Type of Sequencing Platform Used
- 4.3. Next Generation Sequencing Kits: List of Providers
 - 4.3.1. Analysis by Year of Establishment
 - 4.3.2. Analysis by Company Size
 - 4.3.3. Analysis by Location of Headquarters
 - 4.3.4. Leading Players: Analysis by Number of Products

5. PRODUCT COMPETITIVENESS ANALYSIS

- 5.1. Chapter Overview
- 5.2. Assumptions and Methodology
- 5.3. Product Competitiveness Analysis: Competitive Landscape

6. COMPANY PROFILES: NEXT GENERATION SEQUENCING KITS PROVIDERS IN NORTH AMERICA

- 6.1. Chapter Overview
- 6.2. Agilent Technologies
 - 6.2.1. Company Overview
 - 6.2.2. Financial Information
 - 6.2.3. NGS Kit Portfolio
 - 6.2.4. Recent Developments and Future Outlook
- 6.3. BioDynami
 - 6.3.1. Company Overview
 - 6.3.2. NGS Kit Portfolio
 - 6.3.3. Recent Developments and Future Outlook
- 6.4. Creative Biogene
 - 6.4.1. Company Overview
 - 6.4.2. NGS Kit Portfolio
 - 6.4.3. Recent Developments and Future Outlook
- 6.5. New England Biolabs
 - 6.5.1. Company Overview
 - 6.5.2. NGS Kit Portfolio
 - 6.5.3. Recent Developments and Future Outlook

- 6.6. PerkinElmer
 - 6.6.1. Company Overview
 - 6.6.2. Financial Information
 - 6.6.3. NGS Kit Portfolio
 - 6.6.4. Recent Developments and Future Outlook
- 6.7. Thermo Fisher Scientific
 - 6.7.1. Company Overview
 - 6.7.2. Financial Information
 - 6.7.3. NGS Kit Portfolio
 - 6.7.4. Recent Developments and Future Outlook

7. COMPANY PROFILES: NEXT GENERATION SEQUENCING KITS PROVIDERS IN EUROPE

- 7.1. Chapter Overview
- 7.2. Abcam
 - 7.2.1 Company Overview
 - 7.2.2. Financial Information
 - 7.2.3. NGS Kit Portfolio
 - 7.2.4. Recent Developments and Future Outlook
- 7.3. Devyser
 - 7.3.1 Company Overview
 - 7.3.2. NGS Kit Portfolio
 - 7.3.3. Recent Developments and Future Outlook
- 7.4. Diagenode
 - 7.4.1 Company Overview
 - 7.4.2. NGS Kit Portfolio
 - 7.4.3. Recent Developments and Future Outlook
- 7.5. Lexogen
 - 7.5.1 Company Overview
 - 7.5.2. NGS Kit Portfolio
 - 7.5.3. Recent Developments and Future Outlook
- 7.6. Roche
 - 7.6.1 Company Overview
 - 7.6.2. Financial Information
 - 7.6.3. NGS Kit Portfolio
 - 7.6.4. Recent Developments and Future Outlook
- 7.7. Tecan
 - 7.7.1 Company Overview

- 7.7.2. Financial Information
- 7.7.3. NGS Kit Portfolio
- 7.7.4. Recent Developments and Future Outlook

8. COMPANY PROFILES: NEXT GENERATION SEQUENCING KITS PROVIDERS IN ASIA PACIFIC

- 8.1. Chapter Overview
- 8.2. Enzyomics
 - 8.2.1. Company Overview
 - 8.2.2. NGS Kit Portfolio
 - 8.2.3. Recent Developments and Future Outlook
- 8.3. MGI
 - 8.3.1. Company Overview
 - 8.3.2. NGS Kit Portfolio
 - 8.3.3. Recent Developments and Future Outlook
- 8.4. Takara Bio
 - 8.4.1. Company Overview
 - 8.4.2. Financial Information
 - 8.4.3. NGS Kit Portfolio
 - 8.4.4. Recent Developments and Future Outlook
- 8.5. TIANGEN Biotech
 - 8.5.1. Company Overview
 - 8.5.2. NGS Kit Portfolio
 - 8.5.3. Recent Developments and Future Outlook
- 8.6. TransGen Biotech
 - 8.6.1. Company Overview
 - 8.6.2. NGS Kit Portfolio
 - 8.6.3. Recent Developments and Future Outlook
- 8.7. Vazyme
 - 8.7.1. Company Overview
 - 8.7.2. NGS Kit Portfolio
 - 8.7.3. Recent Developments and Future Outlook

9. PATENT ANALYSIS

- 9.1. Chapter Overview
- 9.2. Scope and Methodology
- 9.3. Next Generation Sequencing Kits: Patent Analysis

- 9.3.1 Analysis by Publication Year
- 9.3.2. Analysis by Geography
- 9.3.3. Analysis by CPC Symbols
- 9.3.4. Emerging Focus Areas
- 9.3.5. Analysis by Type of Applicant
- 9.3.6. Leading Players: Analysis by Number of Patents
- 9.4. Next Generation Sequencing Kits: Patent Benchmarking
 - 9.4.1. Analysis by Patent Characteristics
- 9.5. Next Generation Sequencing Kits: Patent Valuation
- 9.6. Leading Patents: Analysis by Number of Citations

10. MARKET FORECAST AND OPPORTUNITY ANALYSIS

- 10.1. Chapter Overview
- 10.2. Forecast Methodology and Key Assumptions
- 10.3. Global Next Generation Sequencing Kits Market, 2021-2035
 - 10.3.1. Next Generation Sequencing Kits Market, 2021 and 2035: Distribution by Type of Nucleotide Sequenced
 - 10.3.1.1. Next Generation Sequencing Kits Market for DNA, 2021-2035
 - 10.3.1.2. Next Generation Sequencing Market for RNA, 2021-2035
 - 10.3.2. Next Generation Sequencing Kits Market, 2021 and 2035: Distribution by Type of End User
 - 10.3.2.1. Next Generation Sequencing Kits Market for Academic and Research Institutes, 2021-2035
 - 10.3.2.2. Next Generation Sequencing Kits Market for Pharmaceutical and Biotechnology Companies, 2021-2035
 - 10.3.2.3. Next Generation Sequencing Kits Market for Hospitals and Clinics, 2021-2035
 - 10.3.2.4. Next Generation Sequencing Kits Market for Others, 2021-2035
 - 10.3.3. Next Generation Sequencing Kits Market, 2021 and 2035: Distribution by Geography
 - 10.3.3.1. Next Generation Sequencing Kits Market in North America, 2021-2035
 - 10.3.3.2. Next Generation Sequencing Kits Market in Europe, 2021-2035
 - 10.3.3.3. Next Generation Sequencing Kits Market in Asia Pacific, 2021-2035
 - 10.3.3.4. Next Generation Sequencing Kits Market in Middle East and North Africa, 2021-2035
 - 10.3.3.5. Next Generation Sequencing Kits Market in Latin America, 2021-2035
 - 10.3.3.6. Next Generation Sequencing Kits Market in Rest of the World, 2021-2035

11. CASE STUDY: NEXT GENERATION SEQUENCING TECHNOLOGIES AND SERVICE PROVIDERS

11.1. Chapter Overview

11.2. Historical Evolution of Genome Sequencing

11.2.1. First Generation DNA Sequencers

11.2.2. Second Generation HT-NGS Platforms

11.2.3. Third Generation HT-NGS Platforms

11.2.3.1. Heliscope Single Molecule Sequencer

11.2.3.2. Single Molecule Real Time Sequencer

11.2.3.3. Single Molecule Real Time (RNAP) Sequencer

11.2.3.4. Nanopore DNA Sequencer

11.2.3.5. Multiplex Polony Technology

11.2.3.6. The Ion Torrent Sequencing Technology

11.2.4. Comparison of First, Second and Third Generation technologies

11.3. Next Generation Sequencing Technologies

11.3.1. Analysis by Type of Application

11.4. Next Generation Sequencing Service Providers

11.4.1. Next Generation Sequencing Service Providers: Industry Players

11.4.2. Analysis by Year of Establishment

11.4.3. Analysis by Company Size

11.4.4. Analysis by Location of Headquarters

11.4.5. Analysis by Type of Service Offered

11.5. Next Generation Sequencing Service Providers: Non-Industry Players

11.5.1. Analysis by Year of Establishment

11.5.2. Analysis by Location of Headquarters

11.5.3. Analysis by Type of Service Offered

12. CONCLUDING REMARKS

13. EXECUTIVE INSIGHTS

13.1. Chapter Overview

13.2. Tecan

13.2.1. Company Snapshot

13.2.2. Interview Transcript: Len Goren, General Manager

14. APPENDIX 1: TABULATED DATA

15. APPENDIX 2: LIST OF COMPANIES AND ORGANIZATIONS

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