

Oligonucleotide Synthesis Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented By Product Type (Synthesized Oligonucleotide Products, Reagents, Equipment, and Services), By Application (Research, Therapeutics, and Diagnostics), By End User (Academic Research Institutes, Pharmaceutical and Biotechnology Companies, and Hospital and Diagnostic Laboratories), By Region and Competition

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Abstracts

The Oligonucleotide Synthesis Market, valued at USD 4.03 Billion in 2022, is expected to exhibit robust growth in the forecast period, with an anticipated Compound Annual Growth Rate (CAGR) of 13.30% through 2028.

This market occupies a prominent position in the biotechnology and pharmaceutical industries, representing the intersection of cutting-edge research and therapeutic development. In recent years, this sector has experienced remarkable expansion, driven by the growing demand for custom-designed oligonucleotides applied in various fields, including gene editing, molecular diagnostics, and drug discovery. This surge can be attributed to the rapid growth of genomics, personalized medicine, and RNA-based therapeutics, all of which heavily rely on the precise synthesis of oligonucleotides. As organizations worldwide make significant investments in genomics research and molecular diagnostics, the oligonucleotide synthesis market has become a critical enabler, granting scientists access to high-quality, tailor-made genetic material with unparalleled precision.

The competitive landscape in this market comprises a mix of well-established industry leaders and innovative startups, fostering a dynamic ecosystem. Technological advancements, such as automated synthesis platforms and novel chemical modifications, are enhancing the efficiency and adaptability of oligonucleotide production, fueling further expansion. Furthermore, regulatory approvals and industry standards play a pivotal role in ensuring the quality and safety of synthesized oligonucleotides, instilling confidence in businesses and researchers alike.

As the biotechnology and pharmaceutical sectors continue to grow and diversify, the oligonucleotide synthesis market is positioned for sustained expansion. Companies that can provide cost-effective, high-quality oligonucleotide solutions while remaining at the forefront of evolving technologies and regulatory requirements will undoubtedly thrive in this dynamic business environment. The strategic partnerships, research collaborations, and investments in this field are not only reshaping the landscape of life sciences but also holding the promise of groundbreaking advancements in healthcare and biotechnology. Consequently, the oligonucleotide synthesis market is a cornerstone of innovation and progress in the business world.

Key Market Drivers

RNA-Based Therapeutics

RNA-Based Therapeutics represent a transformative frontier in the pharmaceutical industry, and they have a significant impact on the oligonucleotide synthesis market. These therapeutics harness the potential of ribonucleic acid (RNA) molecules, including messenger RNA (mRNA), small interfering RNA (siRNA), and antisense oligonucleotides (ASOs), to modulate gene expression and treat a wide array of diseases. Oligonucleotide synthesis is at the heart of RNA-based therapeutics, as it involves the precise design and production of synthetic RNA molecules tailored to target specific genetic sequences or pathways involved in diseases.

One of the most notable breakthroughs in this field has been the development of mRNA vaccines, exemplified by the COVID-19 vaccines produced by Pfizer-BioNTech and Moderna. These vaccines employ synthetic mRNA to instruct cells to produce viral spike proteins, triggering an immune response without using weakened or inactivated viruses. The rapid success of mRNA vaccines has demonstrated the power and versatility of RNA-based therapeutics, creating a surge in demand for custom oligonucleotides used in their formulation. Oligonucleotide synthesis companies are now focusing on optimizing and scaling up production processes to meet this heightened

demand.

Moreover, RNA-based therapeutics are gaining traction in treating genetic disorders, cancers, and rare diseases. ASOs and siRNAs, for instance, can selectively inhibit the expression of disease-causing genes, offering potential cures or symptom management. The design and synthesis of these oligonucleotides must be highly precise to ensure therapeutic efficacy and minimize off-target effects.

Advancements in Genomic Research

Advancements in Genomic Research have catalyzed a remarkable growth trajectory for the oligonucleotide synthesis market. Genomic research, which focuses on decoding the entirety of an organism's genetic material, has evolved rapidly, powered by technologies like Next-Generation Sequencing (NGS) and CRISPR-Cas9 gene editing. These innovations have led to a substantial increase in the demand for custom-designed oligonucleotides – short DNA or RNA sequences – that serve as the fundamental building blocks for genetic analysis, manipulation, and sequencing.

The oligonucleotide synthesis market plays a pivotal role in this genomics revolution by supplying researchers with tailor-made genetic material. Scientists require these oligonucleotides for a myriad of applications, including whole-genome sequencing, gene expression profiling, epigenetic studies, and functional genomics. As researchers aim to decipher the genetic basis of diseases, identify biomarkers, and develop targeted therapies, the need for high-quality, precise oligonucleotides continues to escalate.

Moreover, the emergence of single-cell genomics, which allows for the analysis of individual cells within heterogeneous tissues, has introduced additional complexity and demand for specialized oligonucleotides. Researchers in this field rely heavily on unique oligonucleotide probes and primers to explore the intricacies of gene expression and cellular diversity at the single-cell level.

Key Market Challenges

Efficiency and Scalability

Efficiency and scalability are critical challenges in the oligonucleotide synthesis market, driven by the escalating demand for custom oligonucleotides in various applications. Efficiency is crucial in ensuring that the synthesis processes are not only fast but also precise and error-free. Researchers and manufacturers alike require reliable and

consistent results, and any inefficiencies can lead to delays, increased costs, and compromised research outcomes. Scalability, on the other hand, revolves around the industry's ability to meet the growing demand for oligonucleotides, especially with the expanding applications of genomics, gene therapy, and molecular diagnostics. Scaling up production while maintaining quality standards is a complex endeavor, often requiring significant investments in infrastructure, automation, and process optimization.

The challenge lies in striking a balance between efficiency and scalability. While automation and high-throughput technologies have improved efficiency, ensuring they are scalable to meet the surge in demand is a constant struggle. Additionally, the synthesis of long or highly modified oligonucleotides can be particularly challenging, as it may require specialized equipment and processes. Furthermore, regulatory constraints in some regions necessitate rigorous quality control and documentation, which can impact efficiency and scalability efforts.

Cost Constraints

Cost constraints in the oligonucleotide synthesis market represent a multifaceted challenge that impacts both research and commercial applications. Oligonucleotides are essential components in a wide range of genetic research, diagnostics, and therapeutic development endeavors. However, their synthesis, especially when dealing with long or chemically modified sequences, can be cost-prohibitive. Researchers operating on limited budgets often grapple with the high expenses associated with procuring custom oligonucleotides, potentially limiting the scope of their experiments. Moreover, in the context of RNA-based therapeutics, the production of large quantities of high-quality synthetic RNA molecules, such as mRNA for vaccines or gene therapies, can involve significant costs. Balancing the need for cost-effective oligonucleotides with the requirement for precision and purity is a constant challenge for the industry.

Companies in the oligonucleotide synthesis market also face cost-related pressures. While advancements in automation and synthesis technologies have improved efficiency and reduced costs to some extent, competition within the market necessitates competitive pricing. This can be challenging for companies looking to maintain profit margins while investing in research and development to stay at the forefront of the field. Additionally, the incorporation of chemical modifications or specialized sequences can significantly increase production costs, further complicating the cost-effectiveness equation.

Key Market Trends

Therapeutic Advancements

Therapeutic advancements represent a pivotal trend in the oligonucleotide synthesis market, ushering in a new era of precision medicine and targeted therapies. This trend is characterized by the development and commercialization of RNA-based therapeutics, including messenger RNA (mRNA) vaccines and gene therapies, which rely heavily on custom oligonucleotide synthesis. mRNA vaccines, exemplified by the COVID-19 vaccines from Pfizer-BioNTech and Moderna, have demonstrated the transformative potential of synthetic RNA molecules in eliciting immune responses without using weakened or inactivated viruses. Oligonucleotide synthesis is at the core of these vaccines, producing precisely designed mRNA sequences encoding viral antigens. Beyond vaccines, oligonucleotides play a crucial role in gene therapies, where they are used to modify, repair, or replace defective genes responsible for genetic disorders.

The oligonucleotide synthesis market is integral to therapeutic advancements as it provides the essential raw materials - custom-designed oligonucleotides - with high precision and purity. This allows researchers and pharmaceutical companies to develop RNA-based therapeutics with unprecedented accuracy and efficacy. As research in RNA-based treatments expands to address various diseases, including cancer, rare genetic disorders, and autoimmune conditions, the oligonucleotide synthesis market is poised to grow exponentially. It will continue to serve as a cornerstone of innovation and progress in healthcare, offering the means to manufacture these transformative therapeutics on a scale required to meet global healthcare needs. Consequently, staying at the forefront of oligonucleotide synthesis technologies is critical for companies aiming to contribute to this dynamic and rapidly evolving field.

Gene Editing and CRISPR-Cas9

Gene editing, particularly through the revolutionary CRISPR-Cas9 technology, has emerged as a major driving force in the oligonucleotide synthesis market. CRISPR-Cas9, a versatile genome-editing tool, relies on the precise design and synthesis of oligonucleotides to target and modify specific DNA sequences within an organism's genome. Oligonucleotides, known as guide RNAs (gRNAs), are synthetically engineered to complement the target DNA, guiding the Cas9 enzyme to the desired genomic location for editing. This technology has unlocked new possibilities in genetic research, enabling researchers to manipulate genes with unprecedented precision for applications ranging from fundamental research to therapeutic interventions.

The oligonucleotide synthesis market plays a pivotal role in supporting CRISPR-Cas9 applications by providing custom-designed gRNAs and donor DNA templates for gene editing. Researchers and biotechnology companies require these oligonucleotides to facilitate precise modifications, such as gene knockouts, gene insertions, or base pair substitutions. The ability to rapidly produce high-quality oligonucleotides tailored to specific gene-editing experiments is crucial for advancing the field of CRISPR-based genome engineering.

As gene editing continues to expand in areas like agriculture, medicine, and biotechnology, the oligonucleotide synthesis market is poised for substantial growth. Companies that can offer cost-effective, reliable, and customizable oligonucleotide solutions tailored to the unique requirements of CRISPR-Cas9 applications will remain essential players in this dynamic and transformative field, driving innovation and progress in genetics and biotechnology.

Segmental Insights

Application Insights

The Therapeutic Segment dominates the Oligonucleotide Synthesis market and is predicted to continue expanding over the coming years. The therapeutic segment of the oligonucleotide synthesis market has established dominance and is poised for sustained growth due to several key factors. Firstly, the advent of RNA-based therapeutics, including messenger RNA (mRNA) vaccines and gene therapies, has created a seismic shift in the pharmaceutical industry. Oligonucleotide synthesis is at the core of these transformative treatments, as it enables the precise and customized production of synthetic RNA molecules critical for therapeutic efficacy. The success of mRNA vaccines, exemplified by their rapid development and global deployment during the COVID-19 pandemic, has underscored the potential of oligonucleotide synthesis in addressing pressing healthcare challenges.

Secondly, the trend toward personalized medicine has gained considerable momentum. Tailoring treatments to individual patients' genetic profiles requires the development of highly specific and targeted therapies, many of which involve oligonucleotides. Customized oligos are essential for gene editing, RNA interference, and other precision medicine approaches. As this trend continues to shape the pharmaceutical landscape, the demand for oligonucleotide synthesis is set to soar.

Furthermore, the oligonucleotide synthesis market is witnessing an expanding range of

applications within therapeutics, including the treatment of genetic disorders, cancer, infectious diseases, and rare conditions. These applications necessitate the production of modified oligonucleotides that enhance stability, specificity, and therapeutic effectiveness, driving further growth in the therapeutic segment.

Lastly, regulatory approvals and increasing research collaborations in the oligonucleotide-based therapeutic space have instilled confidence in the market. Regulatory agencies are providing clearer pathways for the development and approval of oligonucleotide-based drugs, further propelling the therapeutic segment's expansion.

Regional Insights

The North America region has established itself as the leader in the Oligonucleotide Synthesis Market in 2022. North America has emerged as the frontrunner in the oligonucleotide synthesis market in 2022 for several compelling reasons. Firstly, the region boasts a well-developed and highly innovative pharmaceutical and biotechnology industry. The United States, in particular, is home to numerous leading biotech companies and research institutions that drive the demand for custom oligonucleotides in various applications, from genomics research to therapeutic development. The robust presence of these industry leaders has created a thriving ecosystem that fosters innovation, research collaborations, and market growth. Secondly, North America benefits from a substantial investment in healthcare and life sciences research. Government funding, private investments, and venture capital have poured into the region to support cutting-edge genomic studies, gene therapies, and RNA-based therapeutics. These financial backing fuels the demand for oligonucleotide synthesis services, as researchers seek reliable and specialized partners for their projects. Additionally, the regulatory environment in North America is conducive to oligonucleotide-based therapeutics. Regulatory agencies like the U.S. Food and Drug Administration (FDA) have developed clear pathways and guidelines for the approval of oligonucleotide drugs and therapies, instilling confidence in the market and facilitating the commercialization of novel products. Moreover, the region's strong emphasis on precision medicine and personalized healthcare has propelled the growth of the oligonucleotide synthesis market. Tailored therapies that utilize custom-designed oligonucleotides to target specific genetic markers or mutations align with North America's healthcare priorities, contributing to market expansion. Lastly, North America's well-established infrastructure and logistics networks ensure efficient supply chains and timely delivery of oligonucleotides, further enhancing its competitive advantage.

Key Market Players

Thermo Fisher Scientific Inc

Agilent Technologies, Inc.

Merck KGaA

BIO-Synthesis Inc

Eurofins Scientific SE

Danaher Corporation

Agilent Technologies, Inc.

Biogen Inc.

Ionis Pharmaceuticals, Inc.

Sarepta Therapeutics, Inc.

Report Scope:

In this report, the Oligonucleotide Synthesis Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Oligonucleotide Synthesis Market, Product Type:

Synthesized Oligonucleotide Products

Reagents

Equipment

Services

Oligonucleotide Synthesis Market, Application:

Research

Therapeutics

Diagnostics

Oligonucleotide Synthesis Market, End User:

Academic Research Institutes

Pharmaceutical & Biotechnology Companies

Hospital & Diagnostic Laboratories

Oligonucleotide Synthesis Market, By Region:

North America

United States

Canada

Mexico

Europe

Germany

United Kingdom

Italy

France

Spain

Asia Pacific

China

India

Japan

South Korea

Australia

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Oligonucleotide Synthesis Market.

Available Customizations:

Oligonucleotide Synthesis Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validations
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

4. VOICE OF CUSTOMER

5. GLOBAL OLIGONUCLEOTIDE SYNTHESIS MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Product Type (Synthesized Oligonucleotide Products, Reagents, Equipment, and Services)
 - 5.2.2. By Application (Research, Therapeutics, and Diagnostics)
 - 5.2.3. By End User (Academic Research Institutes, Pharmaceutical and Biotechnology)

Companies, and Hospital and Diagnostic Laboratories)

5.2.4. By Region

5.2.5. By Company (2022)

5.3. Market Map

6. NORTH AMERICA OLIGONUCLEOTIDE SYNTHESIS MARKET OUTLOOK

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Product Type

6.2.2. By Application

6.2.3. By End User

6.2.4. By Country

6.3. North America: Country Analysis

6.3.1. United States Oligonucleotide Synthesis Market Outlook

6.3.1.1. Market Size & Forecast

6.3.1.1.1. By Value

6.3.1.2. Market Share & Forecast

6.3.1.2.1. By Product Type

6.3.1.2.2. By Application

6.3.1.2.3. By End User

6.3.2. Canada Oligonucleotide Synthesis Market Outlook

6.3.2.1. Market Size & Forecast

6.3.2.1.1. By Value

6.3.2.2. Market Share & Forecast

6.3.2.2.1. By Product Type

6.3.2.2.2. By Application

6.3.2.2.3. By End User

6.3.3. Mexico Oligonucleotide Synthesis Market Outlook

6.3.3.1. Market Size & Forecast

6.3.3.1.1. By Value

6.3.3.2. Market Share & Forecast

6.3.3.2.1. By Product Type

6.3.3.2.2. By Application

6.3.3.2.3. By End User

7. EUROPE OLIGONUCLEOTIDE SYNTHESIS MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Product Type
 - 7.2.2. By Application
 - 7.2.3. By End User
 - 7.2.4. By Country
- 7.3. Europe: Country Analysis
 - 7.3.1. Germany Oligonucleotide Synthesis Market Outlook
 - 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Value
 - 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Product Type
 - 7.3.1.2.2. By Application
 - 7.3.1.2.3. By End User
 - 7.3.2. United Kingdom Oligonucleotide Synthesis Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value
 - 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Product Type
 - 7.3.2.2.2. By Application
 - 7.3.2.2.3. By End User
 - 7.3.3. Italy Oligonucleotide Synthesis Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value
 - 7.3.3.2. Market Share & Forecasty
 - 7.3.3.2.1. By Product Type
 - 7.3.3.2.2. By Application
 - 7.3.3.2.3. By End User
 - 7.3.4. France Oligonucleotide Synthesis Market Outlook
 - 7.3.4.1. Market Size & Forecast
 - 7.3.4.1.1. By Value
 - 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By Product Type
 - 7.3.4.2.2. By Application
 - 7.3.4.2.3. By End User
 - 7.3.5. Spain Oligonucleotide Synthesis Market Outlook
 - 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By Value

- 7.3.5.2. Market Share & Forecast
 - 7.3.5.2.1. By Product Type
 - 7.3.5.2.2. By Application
 - 7.3.5.2.3. By End User

8. ASIA-PACIFIC OLIGONUCLEOTIDE SYNTHESIS MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Product Type
 - 8.2.2. By Application
 - 8.2.3. By End User
 - 8.2.4. By Country
- 8.3. Asia-Pacific: Country Analysis
 - 8.3.1. China Oligonucleotide Synthesis Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Product Type
 - 8.3.1.2.2. By Application
 - 8.3.1.2.3. By End User
 - 8.3.2. India Oligonucleotide Synthesis Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Product Type
 - 8.3.2.2.2. By Application
 - 8.3.2.2.3. By End User
 - 8.3.3. Japan Oligonucleotide Synthesis Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Product Type
 - 8.3.3.2.2. By Application
 - 8.3.3.2.3. By End User
 - 8.3.4. South Korea Oligonucleotide Synthesis Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value

- 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Product Type
 - 8.3.4.2.2. By Application
 - 8.3.4.2.3. By End User
- 8.3.5. Australia Oligonucleotide Synthesis Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Product Type
 - 8.3.5.2.2. By Application
 - 8.3.5.2.3. By End User

9. SOUTH AMERICA OLIGONUCLEOTIDE SYNTHESIS MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Product Type
 - 9.2.2. By Application
 - 9.2.3. By End User
 - 9.2.4. By Country
- 9.3. South America: Country Analysis
 - 9.3.1. Brazil Oligonucleotide Synthesis Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Product Type
 - 9.3.1.2.2. By Application
 - 9.3.1.2.3. By End User
 - 9.3.2. Argentina Oligonucleotide Synthesis Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Product Type
 - 9.3.2.2.2. By Application
 - 9.3.2.2.3. By End User
 - 9.3.3. Colombia Oligonucleotide Synthesis Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value

9.3.3.2. Market Share & Forecast

9.3.3.2.1. By Product Type

9.3.3.2.2. By Application

9.3.3.2.3. By End User

10. MIDDLE EAST AND AFRICA OLIGONUCLEOTIDE SYNTHESIS MARKET OUTLOOK

10.1. Market Size & Forecast

10.1.1. By Value

10.2. Market Share & Forecast

10.2.1. By Product Type

10.2.2. By Application

10.2.3. By End User

10.2.4. By Country

10.3. MEA: Country Analysis

10.3.1. South Africa Oligonucleotide Synthesis Market Outlook

10.3.1.1. Market Size & Forecast

10.3.1.1.1. By Value

10.3.1.2. Market Share & Forecast

10.3.1.2.1. By Product Type

10.3.1.2.2. By Application

10.3.1.2.3. By End User

10.3.2. Saudi Arabia Oligonucleotide Synthesis Market Outlook

10.3.2.1. Market Size & Forecast

10.3.2.1.1. By Value

10.3.2.2. Market Share & Forecast

10.3.2.2.1. By Product Type

10.3.2.2.2. By Application

10.3.2.2.3. By End User

10.3.3. UAE Oligonucleotide Synthesis Market Outlook

10.3.3.1. Market Size & Forecast

10.3.3.1.1. By Value

10.3.3.2. Market Share & Forecast

10.3.3.2.1. By Product Type

10.3.3.2.2. By Application

10.3.3.2.3. By End User

11. MARKET DYNAMICS

- 11.1. Drivers
- 11.2. Challenges

12. MARKET TRENDS & DEVELOPMENTS

- 12.1. Recent Development
- 12.2. Mergers & Acquisitions

13. GLOBAL OLIGONUCLEOTIDE SYNTHESIS MARKET: SWOT ANALYSIS

14. PORTER'S FIVE FORCES ANALYSIS

- 14.1. Competition in the Industry
- 14.2. Potential of New Entrants
- 14.3. Power of Suppliers
- 14.4. Power of Customers
- 14.5. Threat of Substitute Treatment Types

15. COMPETITIVE LANDSCAPE

- 15.1. Business Overview
- 15.2. Service Offerings
- 15.3. Recent Developments
- 15.4. Key Personnel
- 15.5. SWOT Analysis
 - 15.5.1. Thermo Fisher Scientific Inc
 - 15.5.2. Agilent Technologies, Inc.
 - 15.5.3. Merck KGaA
 - 15.5.4. BIO-Synthesis Inc
 - 15.5.5. Eurofins Scientific SE
 - 15.5.6. Danaher Corporation
 - 15.5.7. Agilent Technologies, Inc.
 - 15.5.8. Biogen Inc.
 - 15.5.9. Ionis Pharmaceuticals, Inc.
 - 15.5.10. Sarepta Therapeutics, Inc.

16. STRATEGIC RECOMMENDATIONS

17. ABOUT US & DISCLAIMER

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