

Global Nucleic Acid Aptamers Market Size Study, by Type (DNA Aptamer, RNA Aptamer, XNA Aptamer), by Application (Drug Delivery, Anti-viral Therapy, Pathogen Recognition, Disease Recognition, Stem Cell Markers, Others), by Indication (Viral Infection, Cancer, Ophthalmology, Others), by End-user (Biopharmaceutical Companies, Diagnostic Centers, CROs, Others) and Regional Forecasts 2022-2032

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Abstracts

The global industry was valued at USD 219.9 million in 2023 and is anticipated to grow with a healthy growth rate of more than 17.2% over the forecast period 2024-2032. Nucleic acid aptamers are emerging as a promising alternative to traditional antibodies due to their distinct advantages, including synthesis in vitro, favourable storage properties, and minimal immunogenicity in therapeutic applications like drug delivery and anti-viral therapy. Their high specificity and ability to recognize molecular targets make them comparable to antibodies, positioning them as a viable substitute in various biomedical applications.

The expanding recognition of the benefits of aptamers over antibodies, coupled with technological advancements and a growing spectrum of diseases, is driving the demand for nucleic acid aptamers. These molecules are increasingly being utilized as antimicrobial agents, particularly against biofilm-forming bacteria that exhibit significant resistance to conventional antibiotic treatments. This demand is further fuelled by the rising incidence of bacterial drug resistance and the need for innovative therapeutic approaches. Furthermore, the market is experiencing growth due to the enhanced awareness of aptamers' effectiveness in targeting small molecules and dyes, which is crucial for point-of-care diagnostics and conventional diagnostic kits. Aptamers' ability to

bind with larger molecules, particularly proteins, makes them valuable in biomarkers and diagnostic applications, thereby boosting their market penetration. However, the market faces challenges such as a shortage of skilled professionals required for the development and application of aptamers. The complex processes involved in aptamer development demand technical expertise and advanced instrumentation, which can impede market growth.

In terms of regional analysis, North America dominated the market in 2023, attributed to favourable governmental recommendations, substantial R&D investments, and a well-developed healthcare infrastructure. The Asia Pacific region is expected to witness significant growth during the forecast period due to a rising pediatric population and governmental initiatives to combat the increasing prevalence of diseases.

Major market players included in this report are:

Aptamer Group

Raptamer Discovery Group

Soma-Logic

Aptamer Sciences

Aptagen

Maravai Lifesciences

Kaneka Corporation

Neo Ventures Biotechnology

Aptus Biochem

Base Pair Technologies

The detailed segments and sub-segment of the market are explained below:

By Type:

- DNA Aptamer
- RNA Aptamer
- XNA Aptamer

By Application:

- Drug Delivery
- Anti-viral Therapy
- Pathogen Recognition
- Disease Recognition
- Stem Cell Markers
- Others

By Indication:

- Viral Infection
- Cancer
- Ophthalmology
- Others

By End-user:

- Biopharmaceutical Companies
- Diagnostic Centers
- CROs
- Others

By Region:

- North America
- U.S.
- Canada
- Europe
- UK
- Germany
- France
- Spain
- Italy
- ROE
- Asia Pacific
- China
- India
- Japan
- Australia
- South Korea
- RoAPAC
- Latin America
- Brazil
- Mexico
- RoLA
- Middle East & Africa
- Saudi Arabia
- South Africa
- RoMEA

Years considered for the study are as follows:

- Historical year – 2022
- Base year – 2023
- Forecast period – 2024 to 2032

Key Takeaways:

- Market Estimates & Forecast for 10 years from 2022 to 2032.
- Annualized revenues and regional level analysis for each market segment.
- Detailed analysis of geographical landscape with Country level analysis of major

regions.

- Competitive landscape with information on major players in the market.
- Analysis of key business strategies and recommendations on future market approach.
- Analysis of competitive structure of the market.
- Demand side and supply side analysis of the market.

Contents

CHAPTER 1. GLOBAL NUCLEIC ACID APTAMERS MARKET EXECUTIVE SUMMARY

- 1.1. Global Nucleic Acid Aptamers Market Size & Forecast (2022-2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
 - 1.3.1. By Type
 - 1.3.2. By Application
 - 1.3.3. By Indication
 - 1.3.4. By End-user
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

CHAPTER 2. GLOBAL NUCLEIC ACID APTAMERS MARKET DEFINITION AND RESEARCH ASSUMPTIONS

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
 - 2.3.1. Inclusion & Exclusion
 - 2.3.2. Limitations
 - 2.3.3. Supply Side Analysis
 - 2.3.3.1. Availability
 - 2.3.3.2. Infrastructure
 - 2.3.3.3. Regulatory Environment
 - 2.3.3.4. Market Competition
 - 2.3.3.5. Economic Viability (Consumer's Perspective)
 - 2.3.4. Demand Side Analysis
 - 2.3.4.1. Regulatory frameworks
 - 2.3.4.2. Technological Advancements
 - 2.3.4.3. Environmental Considerations
 - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

CHAPTER 3. GLOBAL NUCLEIC ACID APTAMERS MARKET DYNAMICS

3.1. Market Drivers

- 3.1.1. Growing Role of Bacterial-Resistant Diseases
- 3.1.2. Rising Awareness of Aptamers Over Antibodies

3.2. Market Challenges

- 3.2.1. Shortage of Skilled Professionals

3.3. Market Opportunities

- 3.3.1. Advancements in Diagnostic Kits and Point-of-Care Diagnostics
- 3.3.2. Increasing R&D Investments

CHAPTER 4. GLOBAL NUCLEIC ACID APTAMERS MARKET INDUSTRY ANALYSIS

4.1. Porter's 5 Force Model

- 4.1.1. Bargaining Power of Suppliers
- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.1.6. Futuristic Approach to Porter's 5 Force Model
- 4.1.7. Porter's 5 Force Impact Analysis

4.2. PESTEL Analysis

- 4.2.1. Political
- 4.2.2. Economical
- 4.2.3. Social
- 4.2.4. Technological
- 4.2.5. Environmental
- 4.2.6. Legal

4.3. Top investment opportunity

4.4. Top winning strategies

4.5. Disruptive Trends

4.6. Industry Expert Perspective

4.7. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL NUCLEIC ACID APTAMERS MARKET SIZE & FORECASTS BY TYPE 2022-2032

5.1. Segment Dashboard

5.2. Global Nucleic Acid Aptamers Market: Type Revenue Trend Analysis, 2022 & 2032 (USD Million)

5.2.1. DNA Aptamer

5.2.2. RNA Aptamer

5.2.3. XNA Aptamer

CHAPTER 6. GLOBAL NUCLEIC ACID APTAMERS MARKET SIZE & FORECASTS BY APPLICATION 2022-2032

6.1. Segment Dashboard

6.2. Global Nucleic Acid Aptamers Market: Application Revenue Trend Analysis, 2022 & 2032 (USD Million)

6.2.1. Drug Delivery

6.2.2. Anti-viral Therapy

6.2.3. Pathogen Recognition

6.2.4. Disease Recognition

6.2.5. Stem Cell Markers

6.2.6. Others

CHAPTER 7. GLOBAL NUCLEIC ACID APTAMERS MARKET SIZE & FORECASTS BY INDICATION 2022-2032

7.1. Segment Dashboard

7.2. Global Nucleic Acid Aptamers Market: Indication Revenue Trend Analysis, 2022 & 2032 (USD Million)

7.2.1. Viral Infection

7.2.2. Cancer

7.2.3. Ophthalmology

7.2.4. Others

CHAPTER 8. GLOBAL NUCLEIC ACID APTAMERS MARKET SIZE & FORECASTS BY END-USER 2022-2032

8.1. Segment Dashboard

8.2. Global Nucleic Acid Aptamers Market: End-user Revenue Trend Analysis, 2022 & 2032 (USD Million)

8.2.1. Biopharmaceutical Companies

8.2.2. Diagnostic Centers

8.2.3. CROs

8.2.4. Others

CHAPTER 9. GLOBAL NUCLEIC ACID APTAMERS MARKET SIZE & FORECASTS BY REGION 2022-2032

9.1. North America Nucleic Acid Aptamers Market

9.1.1. U.S. Nucleic Acid Aptamers Market

9.1.1.1. Type breakdown size & forecasts, 2022-2032

9.1.1.2. Application breakdown size & forecasts, 2022-2032

9.1.1.3. Indication breakdown size & forecasts, 2022-2032

9.1.1.4. End-user breakdown size & forecasts, 2022-2032

9.1.2. Canada Nucleic Acid Aptamers Market

9.1.2.1. Type breakdown size & forecasts, 2022-2032

9.1.2.2. Application breakdown size & forecasts, 2022-2032

9.1.2.3. Indication breakdown size & forecasts, 2022-2032

9.1.2.4. End-user breakdown size & forecasts, 2022-2032

9.2. Europe Nucleic Acid Aptamers Market

9.2.1. U.K. Nucleic Acid Aptamers Market

9.2.2. Germany Nucleic Acid Aptamers Market

9.2.3. France Nucleic Acid Aptamers Market

9.2.4. Spain Nucleic Acid Aptamers Market

9.2.5. Italy Nucleic Acid Aptamers Market

9.2.6. Rest of Europe Nucleic Acid Aptamers Market

9.3. Asia-Pacific Nucleic Acid Aptamers Market

9.3.1. China Nucleic Acid Aptamers Market

9.3.2. India Nucleic Acid Aptamers Market

9.3.3. Japan Nucleic Acid Aptamers Market

9.3.4. Australia Nucleic Acid Aptamers Market

9.3.5. South Korea Nucleic Acid Aptamers Market

9.3.6. Rest of Asia Pacific Nucleic Acid Aptamers Market

9.4. Latin America Nucleic Acid Aptamers Market

9.4.1. Brazil Nucleic Acid Aptamers Market

9.4.2. Mexico Nucleic Acid Aptamers Market

9.4.3. Rest of Latin America Nucleic Acid Aptamers Market

9.5. Middle East & Africa Nucleic Acid Aptamers Market

9.5.1. Saudi Arabia Nucleic Acid Aptamers Market

9.5.2. South Africa Nucleic Acid Aptamers Market

9.5.3. Rest of Middle East & Africa Nucleic Acid Aptamers Market

CHAPTER 10. COMPETITIVE INTELLIGENCE

- 10.1. Key Company SWOT Analysis
 - 10.1.1. Company
 - 10.1.2. Company
 - 10.1.3. Company
- 10.2. Top Market Strategies
- 10.3. Company Profiles
 - 10.3.1. Aptamer Group
 - 10.3.1.1. Key Information
 - 10.3.1.2. Overview
 - 10.3.1.3. Financial (Subject to Data Availability)
 - 10.3.1.4. Product Summary
 - 10.3.1.5. Market Strategies
 - 10.3.2. Raptamer Discovery Group
 - 10.3.3. Soma-Logic
 - 10.3.4. Aptamer Sciences
 - 10.3.5. Aptagen
 - 10.3.6. Maravai Lifesciences
 - 10.3.7. Kaneka Corporation
 - 10.3.8. Neo Ventures Biotechnology
 - 10.3.9. Aptus Biochem
 - 10.3.10. Base Pair Technologies

CHAPTER 11. RESEARCH PROCESS

- 11.1. Research Process
 - 11.1.1. Data Mining
 - 11.1.2. Analysis
 - 11.1.3. Market Estimation
 - 11.1.4. Validation
 - 11.1.5. Publishing
- 11.2. Research Attributes

List Of Tables

LIST OF TABLES

TABLE 1. Global Nucleic Acid Aptamers market, report scope

TABLE 2. Global Nucleic Acid Aptamers market estimates & forecasts by Region
2022-2032 (USD Million)

TABLE 3. Global Nucleic Acid Aptamers market estimates & forecasts by Type
2022-2032 (USD Million)

TABLE 4. Global Nucleic Acid Aptamers market estimates & forecasts by Application
2022-2032 (USD Million)

TABLE 5. Global Nucleic Acid Aptamers market by segment, estimates & forecasts,
2022-2032 (USD Million)

TABLE 6. Global Nucleic Acid Aptamers market by region, estimates & forecasts,
2022-2032 (USD Million)

TABLE 7. Global Nucleic Acid Aptamers market by segment, estimates & forecasts,
2022-2032 (USD Million)

TABLE 8. Global Nucleic Acid Aptamers market by region, estimates & forecasts,
2022-2032 (USD Million)

TABLE 9. Global Nucleic Acid Aptamers market by segment, estimates & forecasts,
2022-2032 (USD Million)

TABLE 10. Global Nucleic Acid Aptamers market by region, estimates & forecasts,
2022-2032 (USD Million)

TABLE 11. Global Nucleic Acid Aptamers market by segment, estimates & forecasts,
2022-2032 (USD Million)

TABLE 12. Global Nucleic Acid Aptamers market by region, estimates & forecasts,
2022-2032 (USD Million)

TABLE 13. Global Nucleic Acid Aptamers market by segment, estimates & forecasts,
2022-2032 (USD Million)

TABLE 14. Global Nucleic Acid Aptamers market by region, estimates & forecasts,
2022-2032 (USD Million)

TABLE 15. U.S. Nucleic Acid Aptamers market estimates & forecasts, 2022-2032 (USD
Million)

TABLE 16. U.S. Nucleic Acid Aptamers market estimates & forecasts by segment
2022-2032 (USD Million)

TABLE 17. U.S. Nucleic Acid Aptamers market estimates & forecasts by segment
2022-2032 (USD Million)

TABLE 18. Canada Nucleic Acid Aptamers market estimates & forecasts, 2022-2032
(USD Million)

TABLE 19. Canada Nucleic Acid Aptamers market estimates & forecasts by segment
2022-2032 (USD Million)

TABLE 20. Canada Nucleic Acid Aptamers market estimates & forecasts by segment
2022-2032 (USD Million)

.....

This list is not complete, final report does contain more than 100 tables. The list may be updated in the final deliverable.

List Of Figures

LIST OF FIGURES

- FIG 1. Global Nucleic Acid Aptamers market, research methodology
- FIG 2. Global Nucleic Acid Aptamers market, market estimation techniques
- FIG 3. Global market size estimates & forecast methods.
- FIG 4. Global Nucleic Acid Aptamers market, key trends 2023
- FIG 5. Global Nucleic Acid Aptamers market, growth prospects 2022-2032
- FIG 6. Global Nucleic Acid Aptamers market, porters 5 force model
- FIG 7. Global Nucleic Acid Aptamers market, PESTEL analysis
- FIG 8. Global Nucleic Acid Aptamers market, value chain analysis
- FIG 9. Global Nucleic Acid Aptamers market by segment, 2022 & 2032 (USD Million)
- FIG 10. Global Nucleic Acid Aptamers market by segment, 2022 & 2032 (USD Million)
- FIG 11. Global Nucleic Acid Aptamers market by segment, 2022 & 2032 (USD Million)
- FIG 12. Global Nucleic Acid Aptamers market by segment, 2022 & 2032 (USD Million)
- FIG 13. Global Nucleic Acid Aptamers market by segment, 2022 & 2032 (USD Million)
- FIG 14. Global Nucleic Acid Aptamers market, regional snapshot 2022 & 2032
- FIG 15. North America Nucleic Acid Aptamers market 2022 & 2032 (USD Million)
- FIG 16. Europe Nucleic Acid Aptamers market 2022 & 2032 (USD Million)
- FIG 17. Asia pacific Nucleic Acid Aptamers market 2022 & 2032 (USD Million)
- FIG 18. Latin America Nucleic Acid Aptamers market 2022 & 2032 (USD Million)
- FIG 19. Middle East & Africa Nucleic Acid Aptamers market 2022 & 2032 (USD Million)
- FIG 20. Global Nucleic Acid Aptamers market, company market share analysis (2023)

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