

Global DNA Data Storage Market 2023-2029

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Abstracts

DNA data storage is an emerging technology that uses strands of DNA to encode digital data rather than traditional digital storage methods like hard drives, USBs, or even cloud-based solutions. DNA strands are the genetic code that carries information unique for every living organism. Researchers have found that DNA is a stable, long-lasting data storage medium that can store significant amounts of data. In DNA data storage, digital data is converted into sequences of nucleotides, the building blocks of DNA, using binary code as a basis. The DNA sequences are synthesized in a laboratory and stored for long periods of time, potentially up to thousands of years. The primary advantage of using DNA for data storage is the incredible density at which DNA can store information. One gram of DNA can store as much data as a trillion CDs. Additionally, DNA data storage requires very little energy to maintain and takes up very little space. The global DNA data storage market is likely to register a CAGR of over 53.5% with an incremental growth of USD 1,437.2 million during the forecast period 2023-2029.

The report covers market size and growth, segmentation, regional breakdowns, competitive landscape, trends and strategies for global DNA data storage market. It presents a quantitative analysis of the market to enable stakeholders to capitalize on the prevailing market opportunities. The report also identifies top segments for opportunities and strategies based on market trends and leading competitors' approaches.

This industry report offers market estimates and forecasts of the global market, followed by a detailed analysis of the type, synthesis technology, end user, and region. The global market for DNA data storage can be segmented by type: commercial, research. The research segment held the largest share of the global DNA data storage market in 2022 and is anticipated to hold its share during the forecast period. DNA data storage market is further segmented by synthesis technology: chemical, enzymatic. Globally, the chemical segment made up the largest share of the DNA data storage market.

Based on end user, the DNA data storage market is segmented into: BFSI, government, healthcare, media and entertainment, others. On the basis of region, the DNA data storage market also can be divided into: Asia-Pacific, Europe, North America, Rest of the World (RoW). North America is estimated to account for the largest share of the global DNA data storage market.

Market Segmentation

By type: commercial, research

By synthesis technology: chemical, enzymatic

By end user: BFSI, government, healthcare, media and entertainment, others

By region: Asia-Pacific, Europe, North America, Rest of the World (RoW)

The report also provides a detailed analysis of several leading DNA data storage market vendors that include 10x Genomics, Inc., Agilent Technologies, Inc., Berry Genomics Co., Ltd., BGI Group, Bioneer Corporation, Codex DNA, Inc., Danaher Corporation, Eurofins Scientific SE, F. Hoffmann-La Roche AG, GenScript Biotech Corporation, Illumina Inc., Kaneka Corporation, LGC Ltd., Macrogen, Inc., Merck KGaA, Microsoft Corporation, New England Biolabs, Inc., Oxford Nanopore Technologies Limited, Pacific Biosciences of California, Inc., Seagate Technology Holdings plc, Thermo Fisher Scientific Inc, Twist Bioscience Corporation, among others. In this report, key players and their strategies are thoroughly analyzed to understand the competitive outlook of the market.

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Scope of the Report

To analyze and forecast the market size of the global DNA data storage market.

To classify and forecast the global DNA data storage market based on type, synthesis technology, end user, region.

To identify drivers and challenges for the global DNA data storage market.

To examine competitive developments such as mergers & acquisitions, agreements, collaborations and partnerships, etc., in the global DNA data storage market.

To identify and analyze the profile of leading players operating in the global DNA data storage market.

Why Choose This Report

Gain a reliable outlook of the global DNA data storage market forecasts from 2023 to 2029 across scenarios.

Identify growth segments for investment.

Stay ahead of competitors through company profiles and market data.

The market estimate for ease of analysis across scenarios in Excel format.
Strategy consulting and research support for three months.
Print authentication provided for the single-user license.

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North America

Rest of the World (RoW)

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10x Genomics, Inc.

Agilent Technologies, Inc.

Berry Genomics Co., Ltd.

BGI Group

Bioneer Corporation

Codex DNA, Inc.

Danaher Corporation

Eurofins Scientific SE

F. Hoffmann-La Roche AG

GenScript Biotech Corporation

Illumina Inc.

Kaneka Corporation

LGC Ltd.

Macrogen, Inc.

Merck KGaA

Microsoft Corporation

New England Biolabs, Inc.

Oxford Nanopore Technologies Limited

Pacific Biosciences of California, Inc.

Seagate Technology Holdings plc

Thermo Fisher Scientific Inc

Twist Bioscience Corporation

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