

# Global Rolling Circle Amplification Market Growth 2022-2028

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## Abstracts

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Rolling circle amplification (RCA) is an isothermal enzymatic process that uses a circular DNA template and special DNA or RNA polymerases to amplify a short DNA or RNA primer to form a long single stranded DNA or RNA. The RCA product is a concatemer composed of tens to hundreds of tandem repeats that complement the circular template. The DNA amplification technique's power, simplicity, and versatility have made it an appealing tool for biomedical research and nanobiotechnology. RCA has traditionally been used to create sensitive diagnostic methods for a wide range of targets such as nucleic acids (DNA, RNA), small molecules, proteins, and cells. RCA has also received a great deal of attention in the fields of nanotechnology and nanobiotechnology.

The global market for Rolling Circle Amplification is estimated to increase from US\$ million in 2021 to reach US\$ million by 2028, exhibiting a CAGR of % during 2022-2028. Keeping in mind the uncertainties of COVID-19 and Russia-Ukraine War, we are continuously tracking and evaluating the direct as well as the indirect influence of the pandemic on different end use sectors. These insights are included in the report as a major market contributor.

The APAC Rolling Circle Amplification market is expected at value of US\$ million in 2022 and grow at approximately % CAGR during 2022 and 2028.

The United States Rolling Circle Amplification market is expected at value of US\$ million in 2022 and grow at approximately % CAGR during 2022 and 2028.

The Europe Rolling Circle Amplification market is expected at value of US\$ million in 2022 and grow at approximately % CAGR during 2022 and 2028.

The China Rolling Circle Amplification market is expected at value of US\$ million in 2022 and grow at approximately % CAGR during 2022 and 2028.

Global key Rolling Circle Amplification players cover Thermo Fisher Scientific Inc, Abbott, QIAGEN, Agilent Technologies Inc and Bayer AG, etc. In terms of revenue, the global largest two companies occupy a share nearly % in 2021.

## Report Coverage

This latest report provides a deep insight into the global Rolling Circle Amplification market covering all its essential aspects. This ranges from a macro overview of the market to micro details of the market size, competitive landscape, development trend, niche market, key market drivers and challenges, value chain analysis, etc.

This report aims to provide a comprehensive picture of the global Rolling Circle Amplification market, with both quantitative and qualitative data, to help readers understand how the Rolling Circle Amplification market scenario changed across the globe during the pandemic and Russia-Ukraine War.

The base year considered for analyses is 2021, while the market estimates and forecasts are given from 2022 to 2028. The market estimates are provided in terms of revenue in USD millions and volume in K Units.

## Market Segmentation:

The study segments the Rolling Circle Amplification market and forecasts the market size by Type (Enzyme Assisted RCA Biosensor, Aunp RCA Biosensor and Aptamer Biosensors), by Application (Disease Diagnosis, Biosensing, Drug Discovery and Nanotechnology), and region (APAC, Americas, Europe, and Middle East & Africa).

## Segmentation by type

Enzyme Assisted RCA Biosensor

Aunp RCA Biosensor

Aptamer Biosensors

Small Molecule Biosensors

Transcription Factor Biosensors

Mirna Biosensors

Protein Biosensors

### Segmentation by application

Disease Diagnosis

Biosensing

Drug Discovery

Nanotechnology

Other

### Segmentation by region

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

Major companies covered

Thermo Fisher Scientific Inc

Abbott

QIAGEN

Agilent Technologies Inc

Bayer AG

BD

F. Hoffmann-La Roche Ltd

BIOM?RIEUX

Bio-Rad Laboratories Inc

Takara Bio, Inc

## Chapter Introduction

Chapter 1: Scope of Rolling Circle Amplification, Research Methodology, etc.

Chapter 2: Executive Summary, global Rolling Circle Amplification market size (sales and revenue) and CAGR, Rolling Circle Amplification market size by region, by type, by application, historical data from 2017 to 2022, and forecast to 2028.

Chapter 3: Rolling Circle Amplification sales, revenue, average price, global market share, and industry ranking by company, 2017-2022

Chapter 4: Global Rolling Circle Amplification sales and revenue by region and by country. Country specific data and market value analysis for the U.S., Canada, Europe, China, Japan, South Korea, Southeast Asia, India, Latin America and Middle East & Africa.

Chapter 5, 6, 7, 8: Americas, APAC, Europe, Middle East & Africa, sales segment by country, by type, and type.

Chapter 9: Analysis of the current market trends, market forecast, opportunities and economic trends that are affecting the future marketplace

Chapter 10: Manufacturing cost structure analysis

Chapter 11: Sales channel, distributors, and customers

Chapter 12: Global Rolling Circle Amplification market size forecast by region, by country, by type, and application.

Chapter 13: Comprehensive company profiles of the leading players, including Thermo Fisher Scientific Inc, Abbott, QIAGEN, Agilent Technologies Inc, Bayer AG, BD, F. Hoffmann-La Roche Ltd, BIOMERIEUX and Bio-Rad Laboratories Inc, etc.

Chapter 14: Research Findings and Conclusion

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