

Gene Amplification Technologies Market Size, Share & Trends Analysis Report By Technology, By Downstream Application, By Sample Type, By Product, By End Use, By Region, And Segment Forecasts, 2021 - 2028

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Abstracts

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Gene Amplification Technologies Market Growth & Trends

The global gene amplification technologies market size is expected to reach USD 30.80 billion by 2028, according to a new report by Grand View Research, Inc. The market is expected to expand at a CAGR of 2.0% from 2021 to 2028. The major factors driving the market are the expanding research in molecular diagnostics and genomics, the introduction of novel and advanced products, and the growing acceptance of personalized medicine.

Increasing investment in genomics by pharmaceutical and biotechnology companies is anticipated to drive the market significantly over the near future. In recent years, the biotechnology sector has witnessed a significant shift toward new drugs and treatments, genome sequencing-based medicines, and advancements in technologies, thereby propelling market growth.

Advancements in molecular diagnostic tools such as NGS, droplet digital PCR, and genome-wide sequencing with respect to reproducibility, accuracy, and timeline have influenced the adoption of gene multiplication techniques in the market. In addition, global initiatives such as the Africa Pathogen Genomics Initiative (Africa PGI) have driven the market for gene multiplication technologies. This initiative was launched in

October 2020 to expand genomics-based public health pathogen surveillance.

The loop-mediated isothermal amplification (LAMP) technology segment is witnessing remarkable growth in the past few years. It is a one-step reaction and takes only 30 to 60 minutes to complete. Owing to this, it has the potential to be used in basic research in medicine and pharmacy, point-of-care testing, and cost-effective diagnosis of infectious diseases.

North America captured the largest revenue share in 2020. The U.S. is the major contributor to revenue generation. The active involvement in research activities, coupled with the presence of key players, has contributed to the growth of the regional market. Asia Pacific is anticipated to grow at the fastest rate over the forecast period owing to the entry of large biotechnological organizations, improvements in healthcare infrastructure, and increasing research activities in Asian countries. The key players in the market are undertaking various initiatives in collaboration with biopharma developers to support their product development process.

Gene Amplification Technologies Market Report Highlights

By technology, the PCR-based amplification segment accounted for the largest revenue share in 2020 owing to its widespread use across various applications. The ongoing pandemic has also propelled the segment growth due to the rapidly growing demand for PCR detection kits

The hybridization downstream application segment dominated the market in 2020 owing to the increasing usage of various gene multiplication technologies. The hybridization chain reaction is low cost, practical, and almost ready to use, thus supplementing the market growth

Based on sample type, the single-cell sample is increasingly being used across various research settings. Single-cell PCR and fluorescent in-situ hybridization or FISH are used to identify the differences between populations of single cells

The kits and reagents product segment captured the largest revenue share in 2020 owing to the vast product portfolio offered by the key entities and expanding research activities

In terms of end use, the others segment consisting of hospitals, clinics, and diagnostics labs dominated the market in 2020. It has the highest penetration of

various amplification technologies due to the impact of the ongoing COVID-19 pandemic. However, this segment exhibits a low growth rate as compared to other end-use segments

The academic and research institutes end-use segment is expected to witness the fastest growth over the forecast period. The segment has a substantial penetration of amplification techniques

Contents

Table of contents

CHAPTER 1 METHODOLOGY AND SCOPE

- 1.1 Research Assumptions
 - 1.2 Research Methodology
 - 1.3 Information Procurement
 - 1.3.1 Sample size for the study on gene amplification technologies market:
 - 1.3.1.1 Primary Sources:
 - 1.3.1.1.1 Details of Primary Research
 - 1.3.1.1.2 Secondary Data Sources:
- 1.4 Information or Data Analysis
- 1.5 Market Formulation & Validation
- 1.6 Market Model
 - 1.6.1 Market study, by technology
 - 1.6.2 QFD modeling for market share assessment of technologies
 - 1.6.3 Market study, by end use
- 1.7 Global Market: CAGR Calculation
- 1.8 Objectives
 - 1.8.1 OBJECTIVE 1:
 - 1.8.2 OBJECTIVE 2:

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Market Summary, 2020
- 2.2 Market Segmentation

CHAPTER 3 MARKET VARIABLES, TRENDS, & SCOPE

- 3.1 Market Lineage Outlook
 - 3.1.1 Parent market outlook
 - 3.1.2 Ancillary market outlook
- 3.2 Market Dynamics
 - 3.2.1 Market Driver Analysis
 - 3.2.1.1 Expanding R&D in genomics and molecular diagnostics arena
 - 3.2.1.2 Advent of high throughput technologies
 - 3.2.1.3 Growing acceptance of personalized medicines

- 3.2.1.4 Rising incidence of chronic diseases
- 3.2.2 Market Restraint Analysis
 - 3.2.2.1 Technological challenges associated with gene amplification technologies
 - 3.2.2.2 High cost of PCR instruments
- 3.2.3 Market Opportunity Analysis
 - 3.2.3.1 Expanding applications in cell & gene therapies
 - 3.2.3.2 Expanding markets in the Asia Pacific and Latin America region
- 3.3 Impact of COVID-19 Pandemic on Global Gene Amplification Technologies Market
 - 3.3.1 Challenge Analysis
 - 3.3.2 Opportunity Analysis
 - 3.3.3 Key Developments & Activities
- 3.4 Business Environment Analysis
 - 3.4.1 SWOT Analysis; By Factor (Political & Legal, Economic, And Technological)
 - 3.4.1.1 Political and Legal
 - 3.4.1.1.1 Strengths
 - 3.4.1.1.2 Weaknesses
 - 3.4.1.1.3 Opportunities
 - 3.4.1.1.4 Threats
 - 3.4.1.2 Economic
 - 3.4.1.2.1 Strengths
 - 3.4.1.2.2 Weaknesses
 - 3.4.1.2.3 Opportunities
 - 3.4.1.2.4 Threats
 - 3.4.1.3 Technological
 - 3.4.1.3.1 Strengths
 - 3.4.1.3.2 Weaknesses
 - 3.4.1.3.3 Opportunities
 - 3.4.1.3.4 Threats
 - 3.4.2 Porter's Five Forces Analysis
 - 3.4.2.1 Competitive Rivalry - High
 - 3.4.2.2 Threat of New Entrants - High
 - 3.4.2.3 Threat of Substitutes - Low
 - 3.4.2.4 Bargaining Power of Suppliers - Moderate
 - 3.4.2.5 Bargaining Power of Buyers - Moderate
- 3.5 Major Deals & Strategic Alliance Analysis
 - 3.5.1 Mergers & Acquisitions:
 - 3.5.2 Technological Collaborations:
 - 3.5.3 Licensing And Partnership:
 - 3.5.4 New Product Development:

CHAPTER 4 GENE AMPLIFICATION TECHNOLOGIES MARKET: TECHNOLOGY BUSINESS ANALYSIS

4.1 Gene Amplification Technologies Market: Technology Movement Analysis

4.2 PCR-based Amplification

4.2.1 PCR-based amplification market estimates and forecast, 2017 - 2028 (USD Million)

4.3 Loop-mediated Isothermal Amplification

4.3.1 Loop-mediated isothermal amplification market estimates and forecast, 2017 - 2028 (USD Million)

4.4 Nucleic Acid Sequence-Based Amplification

4.4.1 Nucleic acid sequence-based amplification market estimates and forecast, 2017 - 2028 (USD Million)

4.5 Strand Displacement Amplification

4.5.1 Strand displacement amplification market estimates and forecast, 2017 - 2028 (USD Million)

4.6 Multiple Displacement Amplification

4.6.1 Multiple displacement amplification market estimates and forecast, 2017 - 2028 (USD Million)

4.7 Rolling Circle Amplification

4.7.1 Rolling circle amplification market estimates and forecast, 2017 - 2028 (USD Million)

4.8 Ramification Amplification

4.8.1 Ramification amplification market estimates and forecast, 2017 - 2028 (USD Million)

4.9 Other Amplification Technologies

4.9.1 Other amplification technologies market estimates and forecast, 2017 - 2028 (USD Million)

CHAPTER 5 GENE AMPLIFICATION TECHNOLOGIES MARKET: DOWNSTREAM APPLICATION BUSINESS ANALYSIS

5.1 Gene Amplification Technologies Market: Downstream Application Movement Analysis

5.2 Whole Genome Sequencing

5.2.1 Gene amplification technologies market estimates and forecast for whole-genome sequencing, 2017 - 2028 (USD Million)

5.3 Exome Sequencing

5.3.1 Gene amplification technologies market estimates and forecast for exome sequencing, 2017 - 2028 (USD Million)

5.4 SNP Genotyping Arrays

5.4.1 Gene amplification technologies market for SNP genotyping arrays, 2017 - 2028 (USD Million)

5.5 Array CGH

5.5.1 Gene amplification technologies market for array CGH, 2017 - 2028 (USD Million)

5.6 Hybridization

5.6.1 Gene amplification technologies market for hybridization, 2017 - 2028 (USD Million)

5.7 Other Applications

5.7.1 Gene amplification technologies market for other applications, 2017 - 2028 (USD Million)

CHAPTER 6 GENE AMPLIFICATION TECHNOLOGIES MARKET: SAMPLE TYPE BUSINESS ANALYSIS

6.1 Gene Amplification Technologies Market: Sample Type Movement Analysis

6.2 Single Cell

6.2.1 Gene amplification technologies market for single-cell sample, 2017 - 2028 (USD Million)

6.3 FFPE

6.3.1 Gene amplification technologies market for FFPE sample, 2017 - 2028 (USD Million)

6.4 Others

6.4.1 Gene amplification technologies market for other sample types 2017 - 2028 (USD Million)

CHAPTER 7 GENE AMPLIFICATION TECHNOLOGIES MARKET: PRODUCT BUSINESS ANALYSIS

7.1 Gene Amplification Technologies Market: Product Movement Analysis

7.2 Instruments

7.2.1 Gene amplification technologies market for instruments, 2017 - 2028 (USD Million)

7.3 Kits & Reagents

7.3.1 Gene amplification technologies market for kits & reagents, 2017 - 2028 (USD Million)

7.4 Services

7.4.1 Gene amplification technologies market for services, 2017 - 2028 (USD Million)

CHAPTER 8 GENE AMPLIFICATION TECHNOLOGIES MARKET: END-USE BUSINESS ANALYSIS

8.1 Gene Amplification Technologies Market: End-use Movement Analysis

8.2 Pharmaceutical and Biotechnology Companies

8.2.1 Gene amplification technologies market for pharmaceutical and biotechnology companies, 2017 - 2028 (USD Million)

8.3 Academic and Research Institutes

8.3.1 Gene amplification technologies market for academic and research institutes, 2017 - 2028 (USD Million)

8.4 Others

8.4.1 Gene amplification technologies market for other end users, 2017 - 2028 (USD Million)

CHAPTER 9 GENE AMPLIFICATION TECHNOLOGIES MARKET: REGIONAL BUSINESS ANALYSIS

9.1 Gene Amplification Technologies Market: Regional Movement Analysis

9.2 North America

9.2.1 North America gene amplification technologies market, 2017 - 2028 (USD Million)

9.2.2 U.S.

9.2.2.1 U.S. gene amplification technologies market estimates and forecast, by technology, 2017 - 2028 (USD Million)

9.2.2.2 U.S. gene amplification technologies market estimates and forecast, by downstream application, 2017 - 2028 (USD Million)

9.2.2.3 U.S. gene amplification technologies market estimates and forecast, by sample type, 2017 - 2028 (USD Million)

9.2.2.4 U.S. gene amplification technologies market estimates and forecast, by product, 2017 - 2028 (USD Million)

9.2.2.5 U.S. gene amplification technologies market estimates and forecast, by end use, 2017 - 2028 (USD Million)

9.2.3 Canada

9.2.3.1 Canada gene amplification technologies market estimates and forecast, by technology, 2017 - 2028 (USD Million)

9.2.3.2 Canada gene amplification technologies market estimates and forecast, by

downstream application, 2017 - 2028 (USD Million)

9.2.3.3 Canada gene amplification technologies market estimates and forecast, by sample type, 2017 - 2028 (USD Million)

9.2.3.4 Canada gene amplification technologies market estimates and forecast, by product, 2017 - 2028 (USD Million)

9.2.3.5 Canada gene amplification technologies market estimates and forecast, by end use, 2017 - 2028 (USD Million)

9.3 Europe

9.3.1 Europe gene amplification technologies market, 2017 - 2028 (USD Million)

9.3.2 Germany

9.3.2.1 Germany gene amplification technologies market estimates and forecast, by technology, 2017 - 2028 (USD Million)

9.3.2.2 Germany gene amplification technologies market estimates and forecast, by downstream application, 2017 - 2028 (USD Million)

9.3.2.3 Germany gene amplification technologies market estimates and forecast, by sample type, 2017 - 2028 (USD Million)

9.3.2.4 Germany gene amplification technologies market estimates and forecast, by product, 2017 - 2028 (USD Million)

9.3.2.5 Germany gene amplification technologies market estimates and forecast, by end use, 2017 - 2028 (USD Million)

9.3.3 U.K.

9.3.3.1 U.K. gene amplification technologies market estimates and forecast, by technology, 2017 - 2028 (USD Million)

9.3.3.2 U.K. gene amplification technologies market estimates and forecast, by downstream application, 2017 - 2028 (USD Million)

9.3.3.3 U.K. gene amplification technologies market estimates and forecast, by sample type, 2017 - 2028 (USD Million)

9.3.3.4 U.K. gene amplification technologies market estimates and forecast, by product, 2017 - 2028 (USD Million)

9.3.3.5 U.K. gene amplification technologies market estimates and forecast, by end use, 2017 - 2028 (USD Million)

9.3.4 France

9.3.4.1 France gene amplification technologies market estimates and forecast, by technology, 2017 - 2028 (USD Million)

9.3.4.2 France gene amplification technologies market estimates and forecast, by downstream application, 2017 - 2028 (USD Million)

9.3.4.3 France gene amplification technologies market estimates and forecast, by sample type, 2017 - 2028 (USD Million)

9.3.4.4 France gene amplification technologies market estimates and forecast, by

product, 2017 - 2028 (USD Million)

9.3.4.5 France gene amplification technologies market estimates and forecast, by end use, 2017 - 2028 (USD Million)

9.3.5 Spain

9.3.5.1 Spain gene amplification technologies market estimates and forecast, by technology, 2017 - 2028 (USD Million)

9.3.5.2 Spain gene amplification technologies market estimates and forecast, by downstream application, 2017 - 2028 (USD Million)

9.3.5.3 Spain gene amplification technologies market estimates and forecast, by sample type, 2017 - 2028 (USD Million)

9.3.5.4 Spain gene amplification technologies market estimates and forecast, by product, 2017 - 2028 (USD Million)

9.3.5.5 Spain gene amplification technologies market estimates and forecast, by end use, 2017 - 2028 (USD Million)

9.3.6 Italy

9.3.6.1 Italy gene amplification technologies market estimates and forecast, by technology, 2017 - 2028 (USD Million)

9.3.6.2 Italy gene amplification technologies market estimates and forecast, by downstream application, 2017 - 2028 (USD Million)

9.3.6.3 Italy gene amplification technologies market estimates and forecast, by sample type, 2017 - 2028 (USD Million)

9.3.6.4 Italy gene amplification technologies market estimates and forecast, by product, 2017 - 2028 (USD Million)

9.3.6.5 Italy gene amplification technologies market estimates and forecast, by end use, 2017 - 2028 (USD Million)

9.4 Asia Pacific

9.4.1 Asia Pacific gene amplification technologies market, 2017 - 2028 (USD MILLION)

9.4.2 Japan

9.4.2.1 Japan gene amplification technologies market estimates and forecast, by technology, 2017 - 2028 (USD Million)

9.4.2.2 Japan gene amplification technologies market estimates and forecast, by downstream application, 2017 - 2028 (USD Million)

9.4.2.3 Japangene amplification technologies market estimates and forecast, by sample type, 2017 - 2028 (USD Million)

9.4.2.4 Japan gene amplification technologies market estimates and forecast, by product, 2017 - 2028 (USD Million)

9.4.2.5 Japan gene amplification technologies market estimates and forecast, by end use, 2017 - 2028 (USD Million)

9.4.3 China

9.4.3.1 China gene amplification technologies market estimates and forecast, by technology, 2017 - 2028 (USD Million)

9.4.3.2 China gene amplification technologies market estimates and forecast, by downstream application, 2017 - 2028 (USD Million)

9.4.3.3 China gene amplification technologies market estimates and forecast, by sample type, 2017 - 2028 (USD Million)

9.4.3.4 China gene amplification technologies market estimates and forecast, by product, 2017 - 2028 (USD Million)

9.4.3.5 China gene amplification technologies market estimates and forecast, by end use, 2017 - 2028 (USD Million)

9.4.4 India

9.4.4.1 India gene amplification technologies market estimates and forecast, by technology, 2017 - 2028 (USD Million)

9.4.4.2 India gene amplification technologies market estimates and forecast, by downstream application, 2017 - 2028 (USD Million)

9.4.4.3 India gene amplification technologies market estimates and forecast, by sample type, 2017 - 2028 (USD Million)

9.4.4.4 India gene amplification technologies market estimates and forecast, by product, 2017 - 2028 (USD Million)

9.4.4.5 India gene amplification technologies market estimates and forecast, by end use, 2017 - 2028 (USD Million)

9.4.5 Australia

9.4.5.1 Australia gene amplification technologies market estimates and forecast, by technology, 2017 - 2028 (USD Million)

9.4.5.2 Australia gene amplification technologies market estimates and forecast, by downstream application, 2017 - 2028 (USD Million)

9.4.5.3 Australia gene amplification technologies market estimates and forecast, by sample type, 2017 - 2028 (USD Million)

9.4.5.4 Australia gene amplification technologies market estimates and forecast, by product, 2017 - 2028 (USD Million)

9.4.5.5 Australia gene amplification technologies market estimates and forecast, by end use, 2017 - 2028 (USD Million)

9.4.6 Singapore

9.4.6.1 Singapore gene amplification technologies market estimates and forecast, by technology, 2017 - 2028 (USD Million)

9.4.6.2 Singapore gene amplification technologies market estimates and forecast, by downstream application, 2017 - 2028 (USD Million)

9.4.6.3 Singapore gene amplification technologies market estimates and forecast, by

sample type, 2017 - 2028 (USD Million)

9.4.6.4 Singapore gene amplification technologies market estimates and forecast, by product, 2017 - 2028 (USD Million)

9.4.6.5 Singapore gene amplification technologies market estimates and forecast, by end use, 2017 - 2028 (USD Million)

9.5 Latin America

9.5.1 Latin America gene amplification technologies market, 2017 - 2028 (USD Million)

9.5.2 Brazil

9.5.2.1 Brazil gene amplification technologies market estimates and forecast, by technology, 2017 - 2028 (USD Million)

9.5.2.2 Brazil gene amplification technologies market estimates and forecast, by downstream application, 2017 - 2028 (USD Million)

9.5.2.3 Brazil gene amplification technologies market estimates and forecast, by sample type, 2017 - 2028 (USD Million)

9.5.2.4 Brazil gene amplification technologies market estimates and forecast, by product, 2017 - 2028 (USD Million)

9.5.2.5 Brazil gene amplification technologies market estimates and forecast, by end use, 2017 - 2028 (USD Million)

9.5.3 Mexico

9.5.3.1 Mexico gene amplification technologies market estimates and forecast, by technology, 2017 - 2028 (USD Million)

9.5.3.2 Mexico gene amplification technologies market estimates and forecast, by downstream application, 2017 - 2028 (USD Million)

9.5.3.3 Mexico gene amplification technologies market estimates and forecast, by sample type, 2017 - 2028 (USD Million)

9.5.3.4 Mexico gene amplification technologies market estimates and forecast, by product, 2017 - 2028 (USD Million)

9.5.3.5 Mexico gene amplification technologies market estimates and forecast, by end use, 2017 - 2028 (USD Million)

9.6 MEA

9.6.1 Middle East & Africa gene amplification technologies market, 2017 - 2028 (USD Million)

9.6.2 South Africa

9.6.2.1 South Africa gene amplification technologies market estimates and forecast, by technology, 2017 - 2028 (USD Million)

9.6.2.2 South Africa gene amplification technologies market estimates and forecast, by downstream application, 2017 - 2028 (USD Million)

9.6.2.3 South Africa gene amplification technologies market estimates and forecast, by sample type, 2017 - 2028 (USD Million)

9.6.2.4 South Africa gene amplification technologies market estimates and forecast, by product, 2017 - 2028 (USD Million)

9.6.2.5 South Africa gene amplification technologies market estimates and forecast, by end use, 2017 - 2028 (USD Million)

9.6.3 Saudi Arabia

9.6.3.1 Saudi Arabia gene amplification technologies market estimates and forecast, by technology, 2017 - 2028 (USD Million)

9.6.3.2 Saudi Arabia gene amplification technologies market estimates and forecast, by downstream application, 2017 - 2028 (USD Million)

9.6.3.3 Saudi Arabia gene amplification technologies market estimates and forecast, by sample type, 2017 - 2028 (USD Million)

9.6.3.4 Saudi Arabia gene amplification technologies market estimates and forecast, by product, 2017 - 2028 (USD Million)

9.6.3.5 Saudi Arabia gene amplification technologies market estimates and forecast, by end use, 2017 - 2028 (USD Million)

CHAPTER 10 COMPETITIVE ANALYSIS

10.1 Strategy Framework

10.2 Market Participation Categorization

10.3 Recent Developments & Impact Analysis, By Key Market Participants

10.4 List of Potential End Users

10.5 Private Companies

10.5.1 List Of Emerging Players

10.6 Company Profiles

10.6.1 QIAGEN N.V.

10.6.1.1 Company overview

10.6.1.2 Financial performance

10.6.1.3 Product benchmarking

10.6.1.4 Strategic initiatives

10.6.2 MERCK KGAA

10.6.2.1 Company overview

10.6.2.2 Sigma-Aldrich Inc.

10.6.2.2.1 company overview

10.6.2.3 MERCK MILLIPORE

10.6.2.3.1 company overview

10.6.2.4 Financial performance

10.6.2.5 Product benchmarking

10.6.2.6 Strategic initiatives

10.6.3 TAKARA BIO INC.

- 10.6.3.1 Company overview
- 10.6.3.2 Financial performance
- 10.6.3.3 Product benchmarking
- 10.6.3.4 Strategic initiatives

10.6.4 MYBIOSOURCE.COM

- 10.6.4.1 Company overview
- 10.6.4.2 Product benchmarking

10.6.5 BIO-RAD LABORATORIES, INC.

- 10.6.5.1 Company overview
- 10.6.5.2 Financial performance
- 10.6.5.3 Product benchmarking
- 10.6.5.4 Strategic initiatives

10.6.6 VAZYME BIOTECH CO. LTD.

- 10.6.6.1 Company overview
- 10.6.6.2 Product benchmarking

10.6.7 PROMEGA CORPORATION

- 10.6.7.1 Company overview
- 10.6.7.2 Financial performance
- 10.6.7.3 Product benchmarking
- 10.6.7.4 Strategic initiatives

10.6.8 LGC GROUP

- 10.6.8.1 Company overview
- 10.6.8.2 Lucigen Corporation
 - 10.6.8.2.1 Company overview
- 10.6.8.3 Financial performance
- 10.6.8.4 Product benchmarking
- 10.6.8.5 Strategic initiatives

10.6.9 ILLUMINA, INC.

- 10.6.9.1 Company overview
- 10.6.9.2 Financial performance
- 10.6.9.3 Product benchmarking
- 10.6.9.4 Strategic initiatives

10.6.10 SILICON BIOSYSTEMS

- 10.6.10.1 Company overview
- 10.6.10.2 Product benchmarking
- 10.6.10.3 Strategic initiatives

10.6.11 YIKANG GENE

- 10.6.11.1 Company overview

- 10.6.11.2 Product benchmarking
- 10.6.12 DANAHER CORPORATION
 - 10.6.12.1 Company overview
 - 10.6.12.2 Cytiva
 - 10.6.12.2.1 Company overview
 - 10.6.12.3 Financial performance
 - 10.6.12.4 Product benchmarking
 - 10.6.12.5 Strategic initiatives
- 10.6.13 NEW ENGLAND BIOLABS
 - 10.6.13.1 Company overview
 - 10.6.13.2 Product benchmarking
 - 10.6.13.3 Strategic initiatives
- 10.6.14 SYGNIS AG/ 4BASEBIO AG
 - 10.6.14.1 Company overview
 - 10.6.14.2 Financial performance
 - 10.6.14.3 Product benchmarking
 - 10.6.14.4 Strategic initiatives

List Of Tables

LIST OF TABLES

- Table 1 Examples of Molecular diagnostic tests based on gene amplification technologies
- Table 2 Examples of Molecular diagnostic tests based on gene amplification technologies
- Table 3 COVID-19 Diagnostic tests based on amplification techniques
- Table 4 Examples of Molecular Diagnostic Tests Used to Detect Viral Genetic Material in SARS-CoV-2
- Table 5 PCR based COVID-19 diagnostic tests approved in May 2020
- Table 6 List of molecular tests for COVID-19 diagnosis
- Table 7 List of antigen diagnostic tests for COVID-19 diagnosis
- Table 8 List of home-based molecular tests for COVID-19 diagnosis
- Table 9 Illumina workflows to address COVID-19
- Table 10 Types of PCR
- Table 11 List of potential end-users
- Table 12 List of emerging players
- Table 13 North America gene amplification technologies market, by technology, 2017 - 2028 (USD Million)
- Table 14 North America gene amplification technologies market, by downstream application, 2017 - 2028 (USD Million)
- Table 15 North America gene amplification technologies market, by sample type, 2017 - 2028 (USD Million)
- Table 16 North America gene amplification technologies market, by product, 2017 - 2028 (USD Million)
- Table 17 North America gene amplification technologies market, by end-use, 2017 - 2028 (USD Million)
- Table 18 U.S. gene amplification technologies market, by technology, 2017 - 2028 (USD Million)
- Table 19 U.S. gene amplification technologies market, by downstream application, 2017 - 2028 (USD Million)
- Table 20 U.S. gene amplification technologies market, by sample type, 2017 - 2028 (USD Million)
- Table 21 U.S. gene amplification technologies market, by product, 2017 - 2028 (USD Million)
- Table 22 U.S. gene amplification technologies market, by end-use, 2017 - 2028 (USD Million)

Table 23 Canada gene amplification technologies market, by technology, 2017 - 2028 (USD Million)

Table 24 Canada gene amplification technologies market, by downstream application, 2017 - 2028 (USD Million)

Table 25 Canada gene amplification technologies market, by sample type, 2017 - 2028 (USD Million)

Table 26 Canada gene amplification technologies market, by product, 2017 - 2028 (USD Million)

Table 27 Canada gene amplification technologies market, by end-use, 2017 - 2028 (USD Million)

Table 28 Europe gene amplification technologies market, by technology, 2017 - 2028 (USD Million)

Table 29 Europe gene amplification technologies market, by downstream application, 2017 - 2028 (USD Million)

Table 30 Europe gene amplification technologies market, by sample type, 2017 - 2028 (USD Million)

Table 31 Europe gene amplification technologies market, by product, 2017 - 2028 (USD Million)

Table 32 Europe gene amplification technologies market, by end-use, 2017 - 2028 (USD Million)

Table 33 Germany gene amplification technologies market, by technology, 2017 - 2028 (USD Million)

Table 34 Germany gene amplification technologies market, by downstream application, 2017 - 2028 (USD Million)

Table 35 Germany gene amplification technologies market, by sample type, 2017 - 2028 (USD Million)

Table 36 Germany gene amplification technologies market, by product, 2017 - 2028 (USD Million)

Table 37 Germany gene amplification technologies market, by end-use, 2017 - 2028 (USD Million)

Table 38 U.K. gene amplification technologies market, by technology, 2017 - 2028 (USD Million)

Table 39 U.K. gene amplification technologies market, by downstream application, 2017 - 2028 (USD Million)

Table 40 U.K. gene amplification technologies market, by sample type, 2017 - 2028 (USD Million)

Table 41 U.K. gene amplification technologies market, by product, 2017 - 2028 (USD Million)

Table 42 U.K. gene amplification technologies market, by end-use, 2017 - 2028 (USD Million)

Million)

Table 43 France gene amplification technologies market, by technology, 2017 - 2028 (USD Million)

Table 44 France gene amplification technologies market, by downstream application, 2017 - 2028 (USD Million)

Table 45 France gene amplification technologies market, by sample type, 2017 - 2028 (USD Million)

Table 46 France gene amplification technologies market, by product, 2017 - 2028 (USD Million)

Table 47 France gene amplification technologies market, by end-use, 2017 - 2028 (USD Million)

Table 48 Italy gene amplification technologies market, by technology, 2017 - 2028 (USD Million)

Table 49 Italy gene amplification technologies market, by downstream application, 2017 - 2028 (USD Million)

Table 50 Italy gene amplification technologies market, by sample type, 2017 - 2028 (USD Million)

Table 51 Italy gene amplification technologies market, by product, 2017 - 2028 (USD Million)

Table 52 Italy gene amplification technologies market, by end-use, 2017 - 2028 (USD Million)

Table 53 Spain gene amplification technologies market, by technology, 2017 - 2028 (USD Million)

Table 54 Spain gene amplification technologies market, by downstream application, 2017 - 2028 (USD Million)

Table 55 Spain gene amplification technologies market, by sample type, 2017 - 2028 (USD Million)

Table 56 Spain gene amplification technologies market, by product, 2017 - 2028 (USD Million)

Table 57 Spain gene amplification technologies market, by end-use, 2017 - 2028 (USD Million)

Table 58 Asia Pacific gene amplification technologies market, by technology, 2017 - 2028 (USD Million)

Table 59 Asia Pacific gene amplification technologies market, by downstream application, 2017 - 2028 (USD Million)

Table 60 Asia Pacific gene amplification technologies market, by sample type, 2017 - 2028 (USD Million)

Table 61 Asia Pacific gene amplification technologies market, by product, 2017 - 2028 (USD Million)

Table 62 Asia Pacific gene amplification technologies market, by end-use, 2017 - 2028 (USD Million)

Table 63 China gene amplification technologies market, by technology, 2017 - 2028 (USD Million)

Table 64 China gene amplification technologies market, by downstream application, 2017 - 2028 (USD Million)

Table 65 China gene amplification technologies market, by sample type, 2017 - 2028 (USD Million)

Table 66 China gene amplification technologies market, by product, 2017 - 2028 (USD Million)

Table 67 China gene amplification technologies market, by end-use, 2017 - 2028 (USD Million)

Table 68 Japan gene amplification technologies market, by technology, 2017 - 2028 (USD Million)

Table 69 Japan gene amplification technologies market, by downstream application, 2017 - 2028 (USD Million)

Table 70 Japan gene amplification technologies market, by sample type, 2017 - 2028 (USD Million)

Table 71 Japan gene amplification technologies market, by product, 2017 - 2028 (USD Million)

Table 72 Japan gene amplification technologies market, by end-use, 2017 - 2028 (USD Million)

Table 73 India gene amplification technologies market, by technology, 2017 - 2028 (USD Million)

Table 74 India gene amplification technologies market, by downstream application, 2017 - 2028 (USD Million)

Table 75 India gene amplification technologies market, by sample type, 2017 - 2028 (USD Million)

Table 76 India gene amplification technologies market, by product, 2017 - 2028 (USD Million)

Table 77 India gene amplification technologies market, by end-use, 2017 - 2028 (USD Million)

Table 78 Australia gene amplification technologies market, by technology, 2017 - 2028 (USD Million)

Table 79 Australia gene amplification technologies market, by downstream application, 2017 - 2028 (USD Million)

Table 80 Australia gene amplification technologies market, by sample type, 2017 - 2028 (USD Million)

Table 81 Australia gene amplification technologies market, by product, 2017 - 2028

(USD Million)

Table 82 Australia gene amplification technologies market, by end-use, 2017 - 2028

(USD Million)

Table 83 Singapore gene amplification technologies market, by technology, 2017 - 2028

(USD Million)

Table 84 Singapore gene amplification technologies market, by downstream application, 2017 - 2028 (USD Million)

Table 85 Singapore gene amplification technologies market, by sample type, 2017 - 2028 (USD Million)

Table 86 Singapore gene amplification technologies market, by product, 2017 - 2028 (USD Million)

Table 87 Singapore gene amplification technologies market, by end-use, 2017 - 2028 (USD Million)

Table 88 Latin America gene amplification technologies market, by technology, 2017 - 2028 (USD Million)

Table 89 Latin America gene amplification technologies market, by downstream application, 2017 - 2028 (USD Million)

Table 90 Latin America gene amplification technologies market, by sample type, 2017 - 2028 (USD Million)

Table 91 Latin America gene amplification technologies market, by product, 2017 - 2028 (USD Million)

Table 92 Latin America gene amplification technologies market, by end-use, 2017 - 2028 (USD Million)

Table 93 Brazil gene amplification technologies market, by technology, 2017 - 2028 (USD Million)

Table 94 Brazil gene amplification technologies market, by downstream application, 2017 - 2028 (USD Million)

Table 95 Brazil gene amplification technologies market, by sample type, 2017 - 2028 (USD Million)

Table 96 Brazil gene amplification technologies market, by product, 2017 - 2028 (USD Million)

Table 97 Brazil gene amplification technologies market, by end-use, 2017 - 2028 (USD Million)

Table 98 Mexico gene amplification technologies market, by technology, 2017 - 2028 (USD Million)

Table 99 Mexico gene amplification technologies market, by downstream application, 2017 - 2028 (USD Million)

Table 100 Mexico gene amplification technologies market, by sample type, 2017 - 2028 (USD Million)

Table 101 Mexico gene amplification technologies market, by product, 2017 - 2028 (USD Million)

Table 102 Mexico gene amplification technologies market, by end-use, 2017 - 2028 (USD Million)

Table 103 MEA gene amplification technologies market, by technology, 2017 - 2028 (USD Million)

Table 104 MEA gene amplification technologies market, by downstream application, 2017 - 2028 (USD Million)

Table 105 MEA gene amplification technologies market, by sample type, 2017 - 2028 (USD Million)

Table 106 MEA gene amplification technologies market, by product, 2017 - 2028 (USD Million)

Table 107 MEA gene amplification technologies market, by end-use, 2017 - 2028 (USD Million)

Table 108 South Africa gene amplification technologies market, by technology, 2017 - 2028 (USD Million)

Table 109 South Africa gene amplification technologies market, by downstream application, 2017 - 2028 (USD Million)

Table 110 South Africa gene amplification technologies market, by sample type, 2017 - 2028 (USD Million)

Table 111 South Africa gene amplification technologies market, by product, 2017 - 2028 (USD Million)

Table 112 South Africa gene amplification technologies market, by end-use, 2017 - 2028 (USD Million)

Table 113 Saudi Arabia gene amplification technologies market, by technology, 2017 - 2028 (USD Million)

Table 114 Saudi Arabia gene amplification technologies market, by downstream application, 2017 - 2028 (USD Million)

Table 115 Saudi Arabia gene amplification technologies market, by sample type, 2017 - 2028 (USD Million)

Table 116 Saudi Arabia gene amplification technologies market, by product, 2017 - 2028 (USD Million)

Table 117 Saudi Arabia gene amplification technologies market, by end-use, 2017 - 2028 (USD Million)

List Of Figures

LIST OF FIGURES

- Fig. 1 Market research process
- Fig. 2 Information procurement
- Fig. 3 Primary research pattern
- Fig. 4 Executives contacted
- Fig. 5 Market research approaches
- Fig. 6 Value-chain-based sizing & forecasting
- Fig. 7 QFD modeling for market share assessment
- Fig. 8 Market formulation & validation
- Fig. 9 QFD modeling for market share assessment of technologies
- Fig. 10 Commodity flow analysis modeling for end-users
- Fig. 11 Gene amplification technologies market snapshot, 2020 (USD Million)
- Fig. 12 Gene amplification technologies market segmentation
- Fig. 13 Expected future trends in the biotechnology industry
- Fig. 14 Penetration and growth prospect mapping
- Fig. 15 Market driver impact
- Fig. 16 Alternative high throughput technologies
- Fig. 17 Features of advanced gene amplification technologies
- Fig. 18 Personalized Medicines on the Market
- Fig. 19 Percentage of Oncology Trials Incorporating Biomarkers, from 2000 to 2019
- Fig. 20 Market restraint impact
- Fig. 21 Limitations of various gene amplification technologies
- Fig. 22 Role of NGS to combat COVID-19 outbreak
- Fig. 23 Upcoming conferences related to future trends in genomics
- Fig. 24 Gene amplification technologies market: Technology outlook and key takeaways
- Fig. 25 Gene amplification technologies market: Technology movement analysis
- Fig. 26 PCR based amplification market estimates and forecast, 2017 - 2028 (USD Million)
- Fig. 27 Loop-mediated isothermal amplification market estimates and forecast, 2017 - 2028 (USD Million)
- Fig. 28 Nucleic acid sequence-based amplification market estimates and forecast, 2017 - 2028 (USD Million)
- Fig. 29 Strand displacement amplification market estimates and forecast, 2017 - 2028 (USD Million)
- Fig. 30 Multiple displacement amplification market estimates and forecast, 2017 - 2028 (USD Million)

Fig. 31 Rolling circle amplification market estimates and forecast, 2017 - 2028 (USD Million)

Fig. 32 Ramification amplification market estimates and forecast, 2017 - 2028 (USD Million)

Fig. 33 Other amplification technologies market estimates and forecast, 2017 - 2028 (USD Million)

Fig. 34 Gene amplification technologies market: Downstream application outlook and key takeaways

Fig. 35 Gene amplification technologies market: Downstream applications movement analysis

Fig. 36 Gene amplification technologies market estimates and forecast for whole-genome sequencing, 2017 - 2028 (USD Million)

Fig. 37 Gene amplification technologies market estimates and forecast for exome sequencing, 2017 - 2028 (USD Million)

Fig. 38 Gene amplification technologies market for SNP genotyping arrays, 2017 - 2028 (USD Million)

Fig. 39 Gene amplification technologies market for array CGH, 2017 - 2028 (USD Million)

Fig. 40 Gene amplification technologies market for hybridization, 2017 - 2028 (USD Million)

Fig. 41 Gene amplification technologies market for other applications, 2017 - 2028 (USD Million)

Fig. 42 Gene amplification technologies market: Sample type outlook and key takeaways

Fig. 43 Gene amplification technologies market: Sample type movement analysis

Fig. 44 Gene amplification technologies market for the single-cell sample type, 2017 - 2028 (USD Million)

Fig. 45 Gene amplification technologies market for FFPE sample type, 2017 - 2028 (USD Million)

Fig. 46 Gene amplification technologies market for other sample types, 2017 - 2028 (USD Million)

Fig. 47 Gene amplification technologies market: Product outlook and key takeaways

Fig. 48 Gene amplification technologies market: Product movement analysis

Fig. 49 Gene amplification technologies market for instruments, 2017 - 2028 (USD Million)

Fig. 50 Gene amplification technologies market for kits & reagents, 2017 - 2028 (USD Million)

Fig. 51 Gene amplification technologies market for services, 2017 - 2028 (USD Million)

Fig. 52 Gene amplification technologies market: End-use outlook and key takeaways

- Fig. 53 Gene amplification technologies market: End-use movement analysis
- Fig. 54 Gene amplification technologies market for pharmaceutical and biotechnology companies, 2017 - 2028 (USD Million)
- Fig. 55 Gene amplification technologies market for academic and research institutes, 2017 - 2028 (USD Million)
- Fig. 56 Gene amplification technologies market for other end-users, 2017 - 2028 (USD Million)
- Fig. 57 Gene amplification technologies market: Regional outlook and key takeaways
- Fig. 58 Gene amplification technologies market: Regional movement analysis
- Fig. 59 North America gene amplification technologies market, 2017 - 2028 (USD Million)
- Fig. 60 U.S. gene amplification technologies market, 2017 - 2028 (USD Million)
- Fig. 61 Canada gene amplification technologies market, 2017 - 2028 (USD Million)
- Fig. 62 Europe gene amplification technologies market, 2017 - 2028 (USD Million)
- Fig. 63 Germany gene amplification technologies market, 2017 - 2028 (USD Million)
- Fig. 64 U.K. gene amplification technologies market, 2017 - 2028 (USD Million)
- Fig. 65 France gene amplification technologies market, 2017 - 2028 (USD Million)
- Fig. 66 Italy gene amplification technologies market, 2017 - 2028 (USD Million)
- Fig. 67 Spain gene amplification technologies market, 2017 - 2028 (USD Million)
- Fig. 68 Asia Pacific gene amplification technologies market, 2017 - 2028 (USD Million)
- Fig. 69 China gene amplification technologies market, 2017 - 2028 (USD Million)
- Fig. 70 Japan gene amplification technologies market, 2017 - 2028 (USD Million)
- Fig. 71 India gene amplification technologies market, 2017 - 2028 (USD Million)
- Fig. 72 Australia gene amplification technologies market, 2017 - 2028 (USD Million)
- Fig. 73 Singapore gene amplification technologies market, 2017 - 2028 (USD Million)
- Fig. 74 Latin America gene amplification technologies market, 2017 - 2028 (USD Million)
- Fig. 75 Brazil gene amplification technologies market, 2017 - 2028 (USD Million)
- Fig. 76 Mexico gene amplification technologies market, 2017 - 2028 (USD Million)
- Fig. 77 Middle East Africa gene amplification technologies market, 2017 - 2028 (USD Million)
- Fig. 78 South Africa gene amplification technologies market, 2017 - 2028 (USD Million)
- Fig. 79 Saudi Arabia gene amplification technologies market, 2017 - 2028 (USD Million)
- Fig. 80 Strategy framework
- Fig. 81 Participant categorization

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