

# **Asia-Pacific DNA Methylation Detection Technology Market By Technology (Polymerase Chain Reaction, Microarray, Sequencing, Others), By Product (Consumables, Kits & Reagents, Enzymes, Instruments & Software), By End User (Hospital & Diagnostics Laboratories, Pharmaceutical & Biotechnology Companies, Academic & Research Institutes), By Country, Competition, Forecast & Opportunities, 2020-2030F**

<https://marketpublishers.com/r/A70E5BA83CC8EN.html>

Date: March 2025

Pages: 135

Price: US\$ 4,000.00 (Single User License)

ID: A70E5BA83CC8EN

## **Abstracts**

Asia-Pacific DNA Methylation Detection Technology Market was valued at USD 498.25 million in 2024 and is expected to reach USD 1280.69 million by 2030 with a CAGR of 17.04% during the forecast period. The rising number of cancer cases worldwide continues to be the main factor driving its projected expansion. For instance, as per the cancer statistics presented by the National Cancer Institute, the rate of new cancer cases is approximately 440.5 cases per 100,000 men and women per year.

### **Key Market Drivers**

#### **Increasing Prevalence of Genetic Disorders and Cancer**

The rising prevalence of genetic disorders and cancer in the Asia-Pacific region is a significant driver for the growth of the DNA methylation detection technology market. DNA methylation, a key epigenetic modification, plays a crucial role in the regulation of gene expression, and its aberrations are associated with various diseases, including cancers, neurological disorders, and genetic syndromes. As the incidence of these

diseases increases in the region, there is a growing need for advanced diagnostic tools to detect and monitor DNA methylation patterns. DNA methylation detection technologies provide a more comprehensive and accurate method for identifying disease biomarkers, enabling early detection and personalized treatment. This demand for better diagnostic solutions to improve patient outcomes and treatment efficacy is driving the adoption of DNA methylation detection technologies across Asia-Pacific. The Asia-Pacific region has seen a 184% increase in the number of genetic disorders trials taking place over the past decade, the largest increase for any region worldwide.

## Key Market Challenges

### High Cost and Complexity of DNA Methylation Detection Technologies

One of the key challenges hindering the growth of the DNA methylation detection technology market in Asia-Pacific is the high cost and complexity of the technology. Advanced techniques such as bisulfite sequencing, methylation-specific PCR, and next-generation sequencing (NGS) require specialized equipment, reagents, and expertise, which may not be readily available in developing regions. Furthermore, these technologies often involve complex and time-consuming processes, limiting their widespread adoption, particularly in smaller laboratories and healthcare settings with budget constraints. Although costs are expected to decrease as the technologies mature, the initial investment in equipment and training remains a barrier to broader adoption.

## Key Market Trends

### Integration of Artificial Intelligence and Machine Learning in DNA Methylation Analysis

One of the major trends shaping the DNA methylation detection technology market in Asia-Pacific is the increasing integration of artificial intelligence (AI) and machine learning (ML) to improve the accuracy, speed, and efficiency of methylation analysis. AI and ML algorithms are being employed to analyze large-scale genomic data sets, identify complex methylation patterns, and predict disease outcomes. This trend is especially important in the context of personalized medicine, as AI-driven tools can help identify novel biomarkers and create more effective treatment strategies based on individual methylation profiles. The adoption of AI and ML is expected to enhance the precision of DNA methylation detection and provide valuable insights into disease mechanisms, further driving the market's growth.

## Key Market Players

Agilent Technologies, Inc.

Abcam plc.

Bio-Rad Laboratories, Inc.

Illumina, Inc.

QIAGEN N.V.

Thermo Fisher Scientific, Inc.

F. Hoffmann-La Roche Ltd.

Hologic, Inc.

Pacific Biosciences of California, Inc.

Merck KGaA

## Report Scope:

In this report, the Asia-Pacific DNA Methylation Detection Technology Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Asia-Pacific DNA Methylation Detection Technology Market, By Technology:

Polymerase Chain Reaction

Microarray

Sequencing

Others

## Asia-Pacific DNA Methylation Detection Technology Market, By Product:

Consumables

Kits & Reagents

Enzymes

Instruments & Software

## Asia-Pacific DNA Methylation Detection Technology Market, By End User:

Hospital & Diagnostics Laboratories

Pharmaceutical & Biotechnology Companies

Academic & Research Institutes

## Asia-Pacific DNA Methylation Detection Technology Market, By Country:

China

Japan

South Korea

India

Malaysia

Indonesia

Vietnam

Australia

Thailand

## Philippines

### Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the Asia-Pacific DNA Methylation Detection Technology Market.

### Available Customizations:

Asia-Pacific DNA Methylation Detection Technology Market report with the given market data, TechSci 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. SERVICE 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 & Validation
- 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, and Trends

### 4. VOICE OF CUSTOMER

### 5. ASIA-PACIFIC DNA METHYLATION DETECTION TECHNOLOGY MARKET OUTLOOK

- 5.1. Market Size & Forecast
  - 5.1.1. By Value
- 5.2. Market Share & Forecast
  - 5.2.1. By Technology (Polymerase Chain Reaction, Microarray, Sequencing, Others)
  - 5.2.2. By Product (Consumables, Kits & Reagents, Enzymes, Instruments & Software)
  - 5.2.3. By End User (Hospital & Diagnostics Laboratories, Pharmaceutical &

Biotechnology Companies, Academic & Research Institutes)

5.2.4. By Country

5.2.5. By Company (2024)

5.3. Market Map

## **6. CHINA DNA METHYLATION DETECTION TECHNOLOGY MARKET OUTLOOK**

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Technology

6.2.2. By Product

6.2.3. By End User

## **7. JAPAN DNA METHYLATION DETECTION TECHNOLOGY MARKET OUTLOOK**

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Technology

7.2.2. By Product

7.2.3. By End User

## **8. SOUTH KOREA DNA METHYLATION DETECTION TECHNOLOGY MARKET OUTLOOK**

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Technology

8.2.2. By Product

8.2.3. By End User

## **9. INDIA DNA METHYLATION DETECTION TECHNOLOGY MARKET OUTLOOK**

9.1. Market Size & Forecast

9.1.1. By Value

9.2. Market Share & Forecast

9.2.1. By Technology

9.2.2. By Product

9.2.3. By End User

## **10. MALAYSIA DNA METHYLATION DETECTION TECHNOLOGY MARKET OUTLOOK**

10.1. Market Size & Forecast

10.1.1. By Value

10.2. Market Share & Forecast

10.2.1. By Technology

10.2.2. By Product

10.2.3. By End User

## **11. INDONESIA DNA METHYLATION DETECTION TECHNOLOGY MARKET OUTLOOK**

11.1. Market Size & Forecast

11.1.1. By Value

11.2. Market Share & Forecast

11.2.1. By Technology

11.2.2. By Product

11.2.3. By End User

## **12. VIETNAM DNA METHYLATION DETECTION TECHNOLOGY MARKET OUTLOOK**

12.1. Market Size & Forecast

12.1.1. By Value

12.2. Market Share & Forecast

12.2.1. By Technology

12.2.2. By Product

12.2.3. By End User

## **13. AUSTRALIA DNA METHYLATION DETECTION TECHNOLOGY MARKET OUTLOOK**

13.1. Market Size & Forecast

13.1.1. By Value

13.2. Market Share & Forecast



- 13.2.1. By Technology
- 13.2.2. By Product
- 13.2.3. By End User

## **14. THAILAND DNA METHYLATION DETECTION TECHNOLOGY MARKET OUTLOOK**

- 14.1. Market Size & Forecast
  - 14.1.1. By Value
- 14.2. Market Share & Forecast
  - 14.2.1. By Technology
  - 14.2.2. By Product
  - 14.2.3. By End User

## **15. PHILIPPINES DNA METHYLATION DETECTION TECHNOLOGY MARKET OUTLOOK**

- 15.1. Market Size & Forecast
  - 15.1.1. By Value
- 15.2. Market Share & Forecast
  - 15.2.1. By Technology
  - 15.2.2. By Product
  - 15.2.3. By End User

## **16. MARKET DYNAMICS**

- 16.1. Drivers
- 16.2. Challenges

## **17. MARKET TRENDS & DEVELOPMENTS**

- 17.1. Merger & Acquisition (If Any)
- 17.2. Product Launches (If Any)
- 17.3. Recent Developments

## **18. PORTERS FIVE FORCES ANALYSIS**

- 18.1. Competition in the Industry
- 18.2. Potential of New Entrants

- 18.3. Power of Suppliers
- 18.4. Power of Customers
- 18.5. Threat of Substitute Products/Services

## **19. COMPETITIVE LANDSCAPE**

- 19.1. Agilent Technologies, Inc.
  - 19.1.1. Business Overview
  - 19.1.2. Company Snapshot
  - 19.1.3. Products & Services
  - 19.1.4. Financials (As Reported)
  - 19.1.5. Recent Developments
  - 19.1.6. Key Personnel Details
  - 19.1.7. SWOT Analysis
- 19.2. Abcam plc.
- 19.3. Bio-Rad Laboratories, Inc.
- 19.4. Illumina, Inc.
- 19.5. QIAGEN N.V.
- 19.6. Thermo Fisher Scientific, Inc.
- 19.7. F. Hoffmann-La Roche Ltd.
- 19.8. Hologic, Inc.
- 19.9. Pacific Biosciences of California, Inc.
- 19.10. Merck KGaA

## **20. STRATEGIC RECOMMENDATIONS**

## **21. ABOUT US & DISCLAIMER**

## I would like to order

Product name: Asia-Pacific DNA Methylation Detection Technology Market By Technology (Polymerase Chain Reaction, Microarray, Sequencing, Others), By Product (Consumables, Kits & Reagents, Enzymes, Instruments & Software), By End User (Hospital & Diagnostics Laboratories, Pharmaceutical & Biotechnology Companies, Academic & Research Institutes), By Country, Competition, Forecast & Opportunities, 2020-2030F

Product link: <https://marketpublishers.com/r/A70E5BA83CC8EN.html>

Price: US\$ 4,000.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/A70E5BA83CC8EN.html>