

# **Asia Pacific Phosphoramidite Market Size study, by Type (DNA Phosphoramidites, RNA Phosphoramidites, Labeled Phosphoramidites, Modifier Phosphoramidites, Others) by Application (Drug Discovery & Development, Diagnostics Development, Others) by End-use (Pharmaceutical & Biotechnology Companies, Academic & Research Institutes, Others) and Country Forecasts 2022-2032**

<https://marketpublishers.com/r/AF2AD2B58A75EN.html>

Date: July 2024

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: AF2AD2B58A75EN

## **Abstracts**

Asia Pacific Phosphoramidite Market is valued approximately USD 220 million in 2023 and is anticipated to grow with a growth rate of more than 9.41% over the forecast period 2024-2032. Phosphoramidites are chemical compounds used in the synthesis of oligonucleotides, essential for DNA and RNA research. They enable controlled addition of nucleotides during solid-phase synthesis, crucial in genetic engineering, PCR, and therapeutic nucleic acid drugs. Their stability and specificity make phosphoramidites indispensable for creating custom DNA and RNA sequences in biotechnology and medical research. Also, the rising demand for synthetic biology in Asia Pacific, driven by advancements in next-generation sequencing and personalized medicine, significantly boosts the phosphoramidite market. These advancements enhance DNA and RNA synthesis, crucial for genomics and molecular research, thereby increasing the adoption of phosphoramidites in pharmaceutical and biotechnology sectors.

Moreover, the rising interest in synthetic biology, particularly in countries like China, Japan, and India, is a significant driver. Phosphoramidites are essential for the synthesis of oligonucleotides, which are crucial in genetic engineering, gene therapy, and biotechnological research. Also, the rapid growth of the pharmaceutical and

biotechnology sectors in the Asia Pacific region contributes to the increased demand for phosphoramidites. These industries use oligonucleotides for drug development, diagnostics, and therapeutic applications. Additionally, Supportive government policies, funding, and investments in research and development of advanced biotechnologies and pharmaceuticals are propelling the market. Governments in the region are actively promoting biotech innovation through grants, subsidies, and infrastructure development. However, the high production costs, and stringent regulatory requirements are expected to hinder the market growth during the forecast period 2024-2032.

The key Countries considered for the Asia Pacific Phosphoramidite Market study includes China, India, Japan, South Korea, Australia and Rest of Asia Pacific. In 2023, China was the dominating region in the market in terms of revenue. The Phosphoramidite Market in China is driven by the growing biotechnology and pharmaceutical industries, advances in chemical synthesis and purification technologies, increasing demand for genetic research and diagnostics, and emergence of contract manufacturing organizations. Also, growing healthcare investments in China boost the Phosphoramidite Market by funding biopharmaceutical R&D, enhancing genomic research, and expanding molecular diagnostics, driving demand for high-quality phosphoramidites essential for advanced therapeutic and diagnostic applications. Moreover, India is expected to grow as a fastest growing region during the forecast period 2024-2032.

Major market player included in this report are:

Takara Bio

Saul Laboratories

Royo Biotechnology

Company 4

Company 5

Company 6

Company 7

Company 8

Company 9

Company 10

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

By Type

DNA Phosphoramidites

RNA Phosphoramidites

Labeled Phosphoramidites

Modifier Phosphoramidites

Others

By Application

Drug Discovery & Development

Diagnostics Development

Others

By End-use

Pharmaceutical & Biotechnology Companies

Academic & Research Institutes

Others

By Region:

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

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 country 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.

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