

# **Lipid Nanoparticles Market By Type (Solid Lipid Nanoparticles, Nanostructured Lipid Carriers, Others) , By Application (Therapeutics, Research) By End User (Pharmaceutical and Biotechnology Companies, Academic and Research Institutes, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2033**

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## **Abstracts**

The global lipid nanoparticles market was valued at \$0.9 billion in 2023, and is projected to reach \$3.1 billion by 2033, growing at a CAGR of 13.1% from 2024 to 2033.

Lipid nanoparticles (LNPs) are nanoscale particles ranging from 10 to 1000 nanometers in diameter, primarily composed of lipids. They are designed to encapsulate therapeutic agents such as drugs, vaccines, and genetic materials, protecting them from degradation and enhancing their delivery and efficacy. LNPs can mimic the structure of biological membranes, making them biocompatible and capable of efficiently interacting with and penetrating cells. Their lipid composition typically includes phospholipids, cholesterol, and other lipid molecules that aid in stabilizing the nanoparticle structure and controlling the release of the encapsulated cargo.

The growth of the lipid nanoparticles market is driven by rise in the prevalence of chronic diseases, such as cancer, diabetes, cardiovascular diseases, and neurological disorders, and surge in demand for advanced drug delivery systems. These conditions often require long-term treatment with drugs that have severe side effects when administered through traditional methods. LNPs offer a promising alternative by enabling targeted and sustained delivery of therapeutic agents, thereby reducing systemic side effects and improving patient compliance. In oncology, for instance, LNPs

are used to deliver chemotherapeutic agents directly to tumor cells, minimizing damage to healthy tissues.

However, high cost associated with the production and development of LNP-based formulations, as the manufacturing process involves sophisticated technology and stringent quality control measures to ensure the stability and efficacy of the nanoparticles, leads to increased production costs which limit the market growth. On the contrary, advances in nanotechnology facilitated the development of lipid nanoparticles with enhanced stability, targeted delivery, and controlled release properties. This opened new avenues for drug delivery, allowing for more effective and efficient therapeutic interventions. For instance, in January 2022, Pfizer Inc. and Acuitas Therapeutics, a company focused on developing lipid nanoparticle (LNP) delivery systems to enable messenger RNA (mRNA) -based therapeutics announced that they had entered into a development and option agreement under which Pfizer will have the option to license, on a non-exclusive basis, Acuitas' LNP technology for up to 10 targets for vaccine or therapeutic development.

## Segmentation Overview

The lipid nanoparticles market analysis is segmented by type, application, end user, and region. Depending on type, the market is categorized into solid lipid nanoparticles, nanostructured lipid carriers, and others. By application, it is bifurcated into therapeutics and research. As per end user, the market is classified into pharmaceutical & biotechnology companies, academic & research institutes, and others. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

## Key Findings

By type, the solid lipid nanoparticles segment held the highest market share in 2023.

Depending on the application, the therapeutics segment accounted for maximum share in the market in 2023.

According to end user, the pharmaceutical & biotechnology companies have been the largest shareholder in the market in 2023.

Region wise, North America dominated the lipid nanoparticles market in 2023.

## Competitive Scenario

The major players operating in the lipid nanoparticles market include ABP Biosciences, LLC., Merck KGaA, Cytiva, CD Bioparticles, CordenPharma, Precigenome LLC., Beam Therapeutics, Acuitas Therapeutics, GENEVANT SCIENCES CORPORATION, and Helix Biotech, Inc. Other players in lipid nanoparticles market includes Arbutus Biopharma, and Croda International Plc. These players have adopted several strategies, including mergers & acquisitions, collaborations, product innovation & diversification, and partnerships, to maintain their foothold in the market.

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Expanded list for Company Profiles

Historic market data

Key player details (including location, contact details, supplier/vendor network etc. in excel format)

Key Market Segments

By Type

Solid Lipid Nanoparticles

Nanostructured Lipid Carriers

Others

By Application

Therapeutics

Research

By End User

Pharmaceutical and Biotechnology Companies

Academic and Research Institutes

Others

## By Region

North America

U.S.

Canada

Mexico

Europe

Germany

France

UK

Italy

Spain

Rest of Europe

Asia-Pacific

Japan

China

India

Australia

South Korea

Rest of Asia-Pacific

LAMEA

Brazil

Saudi Arabia

South Africa

Rest of LAMEA

Key Market Players

ABP Biosciences, LLC.

Merck KGaA

Cytiva

CD Bioparticles

CordenPharma

Precigenome LLC.

Beam Therapeutics

Acuitas Therapeutics.

Helix Biotech, Inc.

Genevant Sciences Corporation

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