

Lipid Nanoparticles Market by Product (Ionizable lipids, Phospholipids, Kits, Reagents), LNP Type (SLNs, NLCs), Molecule (siRNA, mRNA), Application, Service Type (Formulation Development, Manufacturing) - Global Forecast to 2029

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Abstracts

The global lipid nanoparticles market is expected to reach USD 350.5 million by 2029, from USD 271.8 million in 2024, at a CAGR of 5.2% from 2024 to 2029.

The global lipid nanoparticles services market is projected to reach USD 135.5 million in 2024 to USD 238.1 million in 2029, at a CAGR of 11.9% of during the forecast period of 2024 to 2029.

The growth of the lipid nanoparticles market has been significantly driven by the increasing use of lipid nanoparticles by players for the drug development of RNA therapeutics, personalized medicine, oncology & other therapies. Being a novel excipient for injectable therapies, limited regulatory approvals and resulting lack of established regulatory processes for lipid nanoparticle production are likely to deter the growth of the market.

' The Covid-19 commercial application segment was the highest share holding segment by application in 2023.'

The commercial application segment under Covid-19 was the highest share holding segment in 2023 in the global lipid nanoparticles market. Lipid nanoparticles (LNP) usage in mRNA based COVID-19 vaccines due to their ability to enhance the stability and availability of mRNA was one of the drivers for establishing this market. With the decline in COVID-19 vaccinations, it is expected that clinical applications such as

development of RNA therapeutics & LNP based drugs for oncology and other indications will drive the growth in this market.

“The US has continued to dominate the lipid nanoparticles market during the forecast period of 2024-2029.”

Two main mRNA-based COVID-19 vaccine producers that have shown success are Pfizer-BioNTech and Moderna, who have generated billions of doses together. With US government initiative such as Operation Warp Speed, US based biopharmaceutical companies have developed significant capacities for RNA & LNP production as well as capabilities for development of LNP based drugs. Established LNP & RNA ecosystem and drug development activities from pharmaceutical & biotech companies as well as CDMOs are expected to help the US market retain its leadership in lipid nanoparticles development & manufacturing.

The primary interviews conducted for this report can be categorized as follows:

By Respondent: Supply Side- 70% and Demand Side 30%

By Designation: Managers - 45%, CXO & Directors - 30%, and Executives - 25%

By Region: North America -40%, Europe -25%, Asia-Pacific -25%, Latin America -5% and Middle East & Africa- 5%

List of Companies Profiled in the Report:

Avanti Polar Lipids (Croda International plc) (US)

Merck KGaA (Germany)

Evonik Industries AG (Germany)

IOI Oleo GmbH (Germany)

FUJIFILM Pharmaceuticals U.S.A., Inc. (US)

Nippon Fine Chemical (Japan)

Recipharm AB (Sweden)

Emergent (US)

EUROAPI (France)

Cayman Chemical (US)

CordenPharma (Switzerland)

NOF CORPOTATION (Japan)

Precision NanoSystems (Canada)

Gattefoss? (France)

Acuitas Therapeutics (Canada)

Creative Biolabs (US)

Curapath (Spain)

Lipoid GmbH (Germany)

Nanocs, Inc. (US)

MedKoo Biosciences, Inc. (US)

Polysciences, Inc. (US)

BIOVECTRA (Canada)

Ascendia Pharmaceuticals (US)

Curia Global, Inc. (US)

Vernal Biosciences (US)

Research Coverage:

This research report categorizes the lipid nanoparticles market by product (ionizable lipids, PEGylated lipids, neutral lipids, phospholipids, kits & reagents, and other formulation materials), by LNP type (solid lipid nanoparticles, nanostructured lipid carriers, and other types), by molecule type (si RNA, m RNA, and other molecules), by application ((commercial (Polyneuropathy, Covid-19), clinical (Covid-19, cancer, other diseases)), by end user (pharmaceutical & biotechnologies companies, CDMO's, academic & research institutes), by service type (formulation development services, manufacturing services, and other services), by end user of services (pharmaceutical & biotechnologies companies, academic & research institutes), and by region (North America, Europe, Asia Pacific, Latin America, Middle East, Africa). The scope of the report covers detailed information regarding the major factors, such as drivers, restraints, challenges, and opportunities, influencing the growth of the lipid nanoparticles market. A detailed analysis of the key industry players has been done to provide insights into their business overview, products, services, solutions, key strategies, collaborations, partnerships, and agreements. New launches, collaborations and acquisitions, and recent developments associated with the lipid nanoparticles market.

Key Benefits of Buying the Report:

The report will help market leaders/new entrants by providing them with the closest approximations of the revenue numbers for the overall lipid nanoparticles market and its subsegments. It will also help stakeholders better understand the competitive landscape and gain more insights to better position their business and make suitable go-to-market strategies. This report will enable stakeholders to understand the market's pulse and provide them with information on the key market drivers, restraints, opportunities, and challenges.

The report provides insights on the following pointers:

Analysis of key drivers (Increasing use of lipid nanoparticles in anti-cancer therapies, Increasing use of lipid nanoparticles in RNA-based therapies, Growing government focus on R&D of key players for the development of lipid nanoparticles-based drugs, restraints (Stringent regulations associated lipid nanoparticles, High cost and difficulties for production of lipid nanoparticles), opportunities (Growing demand for advanced drug delivery systems), and Challenges (Formulation related challenges).

Product Development/Innovation: Detailed insights on newly launched products/services of the lipid nanoparticles market

Market Development: Comprehensive information about lucrative markets - the report analyses the market across varied regions.

Market Diversification: Exhaustive information about new products, new services, untapped geographies, recent developments, and investments in the lipid nanoparticles market

Competitive Assessment: Avanti Polar Lipids (Croda International plc) (US), Merck KGaA (Germany), Evonik Industries AG (Germany), FUJIFILM Pharmaceuticals U.S.A., Inc. (US), Nippon Fine Chemical (Japan), Recipharm AB (Sweden), Emergent (US), EUROAPI (France), Cayman Chemical (US), CordenPharma (Switzerland), NOF CORPORATION (Japan), IOI Oleo GmbH (Germany), among others in the market.

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