

Global Key Lipid Excipients for LNP-Based Nucleic Acid Drug Delivery Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Key Lipid Excipients for LNP-Based Nucleic Acid Drug Delivery market size was valued at US\$ 268 million in 2025 and is forecast to a readjusted size of US\$ 387 million by 2032 with a CAGR of 5.4% during review period.

In 2025, global sales volume of key lipid excipients for LNP-based nucleic acid drug delivery reached approximately 1,450 kg, with an average price of about 180,000 USD/kg. Key lipid excipients for LNP-based nucleic acid drug delivery refer to high-purity functional lipid raw materials used in lipid nanoparticle delivery systems, mainly including ionizable lipids, PEGylated lipids, phospholipids, sterol lipids, and other functional lipids. These products are typically supplied in GMP grade, clinical grade, research grade, or custom synthesis grade forms, and they self-assemble into stable lipid nanoparticle structures to enable nucleic acid encapsulation, protection, in vivo delivery, cellular uptake, and endosomal escape. This topic focuses on key lipid excipients used in the development and manufacturing of mRNA vaccines, mRNA therapeutics, siRNA therapeutics, gene editing products, and other nucleic acid drugs, serving as core upstream materials for formulation development, CMC scale-up, and commercial production of nucleic acid medicines.

The competitive landscape remains led by established suppliers in Europe, the United States, and Japan, especially in GMP-grade ionizable lipids, PEGylated lipids, phospholipids, and sterol-based lipid excipients. Chinese suppliers such as JenKem Technology, SINOPEG, AVT, and Huateng Pharmaceutical are becoming increasingly relevant, supported by domestic substitution demand and growing nucleic acid drug development activity. However, international validation, GMP compliance, regulatory

filings, impurity control, and commercial-scale supply reliability remain key differentiators.

Growth will be driven by the clinical advancement of therapeutic mRNA products, the expansion of siRNA and gene editing applications, and the increasing need for customized ionizable lipids and stable regional supply chains. At the same time, the market faces constraints from uncertain downstream drug commercialization timelines, patent barriers around proprietary lipids, long qualification cycles for pharmaceutical excipients, and the gap between research-grade lipid supply and commercial GMP-grade manufacturing.

This report is a detailed and comprehensive analysis for global Key Lipid Excipients for LNP-Based Nucleic Acid Drug Delivery market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Key Lipid Excipients for LNP-Based Nucleic Acid Drug Delivery market size and forecasts, in consumption value (\$ Million), sales quantity (Kg), and average selling prices (US\$/Kg), 2021-2032

Global Key Lipid Excipients for LNP-Based Nucleic Acid Drug Delivery market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kg), and average selling prices (US\$/Kg), 2021-2032

Global Key Lipid Excipients for LNP-Based Nucleic Acid Drug Delivery market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kg), and average selling prices (US\$/Kg), 2021-2032

Global Key Lipid Excipients for LNP-Based Nucleic Acid Drug Delivery market shares of main players, shipments in revenue (\$ Million), sales quantity (Kg), and ASP (US\$/Kg), 2021-2026

The Primary Objectives in This Report Are:

Global Key Lipid Excipients for LNP-Based Nucleic Acid Drug Delivery Market 2026 by Manufacturers, Regions, Ty...

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Key Lipid Excipients for LNP-Based Nucleic Acid Drug Delivery

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Key Lipid Excipients for LNP-Based Nucleic Acid Drug Delivery market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include CordenPharma, Croda International Plc, Merck KGaA, Evonik Industries AG, NOF CORPORATION, Lipoid GmbH, Nippon Fine Chemical Co., Ltd., ABITEC Corporation, NucleoSyn, ST Pharm Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Key Lipid Excipients for LNP-Based Nucleic Acid Drug Delivery market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Ionizable Lipids

PEGylated Lipids

Phospholipids

Sterols

Other Functional Lipids

Market segment by Quality Grade

GMP Grade

Clinical Grade

Research Grade

Custom Grade

Market segment by Application

mRNA Vaccines

mRNA Therapeutics

siRNA Therapeutics

Gene Editing

Other Nucleic Acid Drugs

Major players covered

CordenPharma

Croda International Plc

Merck KGaA

Evonik Industries AG

NOF CORPORATION

Lipoid GmbH

Nippon Fine Chemical Co., Ltd.

ABITEC Corporation

NucleoSyn

ST Pharm Co., Ltd.

Biopharma PEG Scientific Inc.

Beijing JenKem Technology Co., Ltd.

XIAMEN SINOPEG BIOTECH CO., LTD.

AVT (SHANGHAI) PHARMACEUTICAL TECH CO., LTD

Hunan Huateng Pharmaceutical Co., Ltd.

WuXi AppTec Co., Ltd.

Shanghai Haoyuan Chemexpress Co., Ltd.

BroadPharm

BOC Sciences

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Key Lipid Excipients for LNP-Based Nucleic Acid Drug Delivery product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Key Lipid Excipients for LNP-Based Nucleic Acid Drug Delivery, with price, sales quantity, revenue, and global market share of Key Lipid Excipients for LNP-Based Nucleic Acid Drug Delivery from 2021 to 2026.

Chapter 3, the Key Lipid Excipients for LNP-Based Nucleic Acid Drug Delivery competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Key Lipid Excipients for LNP-Based Nucleic Acid Drug Delivery breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Key Lipid Excipients for LNP-Based Nucleic Acid Drug Delivery market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Key Lipid Excipients for LNP-Based Nucleic Acid Drug Delivery.

Chapter 14 and 15, to describe Key Lipid Excipients for LNP-Based Nucleic Acid Drug Delivery sales channel, distributors, customers, research findings and conclusion.

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