

# Global Lipid Nanoparticle Synthesis Chip Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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## Abstracts

According to our (Global Info Research) latest study, the global Lipid Nanoparticle Synthesis Chip market size was valued at US\$ 46.3 million in 2024 and is forecast to a readjusted size of USD 117 million by 2031 with a CAGR of 14.3% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Lipid nanoparticle synthesis chip is an advanced technology widely used in the field of nanotechnology. Its design is based on the special structure of lipid nanoparticles, aiming to achieve efficient drug delivery and biomedical research. This article will provide an in-depth introduction to the principles, structural design, performance characteristics, and applications of lipid nanoparticle chips in drug delivery and biomedical fields. Gene therapy: As an effective gene carrier, lipid nanoparticle chips can be used for gene therapy to achieve precise gene delivery and treat genetic diseases. Vaccine delivery: Hybrid chips can be used for vaccine delivery, improving the delivery efficiency of vaccines, enhancing immune response, and strengthening the immunogenicity of vaccines. Neural drug delivery: In the treatment of neurological diseases, lipid nanoparticle chips can achieve precise delivery of neural drugs and improve treatment effectiveness.

This report is a detailed and comprehensive analysis for global Lipid Nanoparticle Synthesis Chip 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 Lipid Nanoparticle Synthesis Chip market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pc), 2020-2031

Global Lipid Nanoparticle Synthesis Chip market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pc), 2020-2031

Global Lipid Nanoparticle Synthesis Chip market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pc), 2020-2031

Global Lipid Nanoparticle Synthesis Chip market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), and ASP (US\$/Pc), 2020-2025

### **The Primary Objectives in This Report Are:**

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Lipid Nanoparticle Synthesis Chip
- 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 Lipid Nanoparticle Synthesis Chip 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 microfluidic ChipShop GmbH, Enplas, Micronit, Atrand Biosciences, Teledyne MEMS, Dolomite, IMT Microtechnologies, Precigenome LLC, Fluigent, UFluidix, etc.

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

### **Market Segmentation**

Lipid Nanoparticle Synthesis Chip market is split by Type and by Application. For the period 2020-2031, 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**

COC/COP

PMMA

Glass

### **Market segment by Application**

Gene Therapy

Vaccine Delivery

Neurodrug Delivery

Others

### **Major players covered**

microfluidic ChipShop GmbH

Enplas

Micronit

Atrandi Biosciences

Teledyne MEMS

Dolomite

IMT Microtechnologies

Precigenome LLC

Fluigent

UFluidix

DXFLUIDICS

FluidicLab

Konlida Technology

Hangzhou TinkerBio Technology

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 Lipid Nanoparticle Synthesis Chip product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Lipid Nanoparticle Synthesis Chip, with price, sales quantity, revenue, and global market share of Lipid Nanoparticle Synthesis Chip from 2020 to 2025.

Chapter 3, the Lipid Nanoparticle Synthesis Chip competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Lipid Nanoparticle Synthesis Chip breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Lipid Nanoparticle Synthesis Chip market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Lipid Nanoparticle Synthesis Chip.

Chapter 14 and 15, to describe Lipid Nanoparticle Synthesis Chip sales channel, distributors, customers, research findings and conclusion.

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