

Global Immunoisolation Cell Encapsulation Device 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 Immunoisolation Cell Encapsulation Device market size was valued at US\$ 121 million in 2025 and is forecast to a readjusted size of US\$ 275 million by 2032 with a CAGR of 12.2% during review period.

An immunoisolation cell encapsulation device is a cell therapy delivery device that separates therapeutic living cells from the host immune system through semipermeable membranes, microcapsules, hydrogels, or implantable chambers while allowing exchange of oxygen, nutrients, metabolic waste, and therapeutic molecules. It is mainly used for islet cell replacement, sustained secretion from engineered cells, allogeneic or xenogeneic cell transplantation, and preclinical cell therapy evaluation. Product value comes from material biocompatibility, pore-size and mass-transfer control, cell viability maintenance, retrievability, GMP manufacturing, and regulatory validation as a combination product, with an estimated gross margin of about 55%.

Downstream demand is mainly driven by type 1 diabetes cell replacement therapy, allogeneic cell therapy, and engineered cell platforms that can provide long-term secretion of therapeutic proteins. Compared with direct cell infusion, immunoisolation devices can reduce reliance on systemic immunosuppression and provide a more controllable engineered carrier for cell dose, implantation site, and safe retrieval, making them suitable for standardized combination products led by major pharmaceutical and regenerative medicine companies.

Product upgrades are focused on high-throughput mass transfer, anti-fibrotic materials, local immunomodulation, oxygenation design, and prevascularized structures. The

supplier landscape is still led by European and North American innovation companies and translational medicine teams, with limited commercialized products. Companies typically build barriers through proprietary materials, device architecture, cell source know-how, and clinical data, and future scale-up is more likely to occur through pharmaceutical partnerships, licensing, or acquisitions.

Key opportunities come from diabetes, endocrine replacement, sustained protein/enzyme delivery, and localized cancer cell therapy, but risks remain high, including foreign body response, hypoxia, batch consistency, implantation workflow, long-term follow-up, and combination-product regulatory requirements. Suppliers with GMP manufacturing, retrievable device design, and integrated cell-material validation capabilities are better positioned to enter clinical programs.

This report is a detailed and comprehensive analysis for global Immunoisolation Cell Encapsulation Device 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 Immunoisolation Cell Encapsulation Device market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Immunoisolation Cell Encapsulation Device market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Immunoisolation Cell Encapsulation Device market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Immunoisolation Cell Encapsulation Device market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

Global Immunoisolation Cell Encapsulation Device Market 2026 by Manufacturers, Regions, Type and Application,...

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

To assess the growth potential for Immunoisolation Cell Encapsulation Device

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 Immunoisolation Cell Encapsulation Device 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 Vertex Pharmaceuticals, Sernova, Defymed, TheraCyte, Austrianova, Diatranz Otsuka, Otsuka Pharmaceutical Factory, Procyon Technologies, Novo Nordisk, Eli Lilly, etc.

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

Market Segmentation

Immunoisolation Cell Encapsulation Device 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

Microcapsule Encapsulation Devices

Sheet and Pouch Macroencapsulation Devices

Hollow-Fiber Encapsulation Devices

Chamber Encapsulation Devices

Conformal Coating Encapsulation Devices

Market segment by Immunoisolation Mechanism

Size-Selective Semipermeable Membrane

Hydrogel Matrix Barrier

Cellulose Sulfate Polymer Capsule

Local Immunomodulation Barrier

Nanoporous Membrane Barrier

Market segment by Cell Source

Human Donor Islets

Stem Cell-Derived Islet Cells

Porcine Islet Cells

Engineered Therapeutic Cells

Stem Cells and Stromal Cells

Other Therapeutic Cells

Market segment by Oxygenation and Vascularization Design

Passive Diffusion Design

Prevascularized Design

Oxygen-Refueled Design

Oxygen-Generating Design

Port-Accessible Refillable Design

Market segment by Application

Type 1 Diabetes Cell Therapy

Metabolic and Endocrine Replacement

Protein and Enzyme Delivery

Cancer Local Cell Therapy

Cell Therapy R&D and Preclinical Evaluation

Bioreactor Cell Protection

Other Applications

Major players covered

Vertex Pharmaceuticals

Sernova

Defymed

TheraCyte

Austrianova

Diatranz Otsuka

Otsuka Pharmaceutical Factory

Procyon Technologies

Novo Nordisk

Eli Lilly

PharmaCyte Biotech

Beta-O2 Technologies

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 Immunoisolation Cell Encapsulation Device product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Immunoisolation Cell Encapsulation Device, with price, sales quantity, revenue, and global market share of Immunoisolation Cell Encapsulation Device from 2021 to 2026.

Chapter 3, the Immunoisolation Cell Encapsulation Device competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Immunoisolation Cell Encapsulation Device 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 Immunoisolation Cell Encapsulation Device 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 Immunoisolation Cell Encapsulation Device.

Chapter 14 and 15, to describe Immunoisolation Cell Encapsulation Device sales channel, distributors, customers, research findings and conclusion.

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