

Global Live Cell Encapsulation Market Size study, By Manufacturing Technique (Simple Dripping, Electrostatic Dripping, Liquid Jet Break Up, Coaxial Airflow, Vibrating Jet, Jet Cutting, Rotating Disk Atomization), By Polymer Type (Alginate, HEMA-MMA, Chitosan, Siliceous Encapsulates, Cellulose Sulfate, PAN-PVC, Other Polymers), By Application (Drug Delivery, Regenerative medicine, Cell Transplantation, Probiotics, Research), and Regional Forecasts 2022-2028

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Abstracts

Global Live Cell Encapsulation Market is valued approximately USD 266.26 million in 2021 and is anticipated to grow with a healthy growth rate of more than 3,2 % over the forecast period 2022-2028.

Live Cell Encapsulation is the approach for curing various diseases, this technology encapsulates the live cells in protecting biocompatible capsules. These capsules guard live cells from getting destructed by the immune system. Live cell encapsulation is majorly used for cell-based therapeutic delivery, cell transplantation, and controlled drug delivery. The encapsulation of cells facilitates the distribution of molecules of interest for a longer time period and prevents the need for surgical procedures. The growing prevalence of the target diseases, rising emphasis on novel drug delivery systems for disease treatment, increasing public-private investments for supporting new product development, and raising public awareness for the clinical role of encapsulated cells in disease management are the primary factors for the surging market demand globally. In

In addition, new product launch coupled with continuous technological advancements is further factors that accelerate the market growth around the world. For instance, In July 2019, PharmaCyte Biotech advances the treatment method by using the live-cell encapsulation technique for curing diabetes and cancer. However, high product manufacturing costs and limited availability of high-quality raw materials impede the growth of the market over the forecast period of 2022-2028. Also, growing public awareness for the role of encapsulated cells in disease management and increasing research and development activity are anticipated to act as a catalyzing factor for the market demand during the forecast period.

The key regions considered for the global Live Cell Encapsulation Market study include Asia Pacific, North America, Europe, Latin America, and the Rest of the World. North America is the leading region across the world in terms of market share owing to the continuous technological advancements in live-cell encapsulation, rising public-private investments, and the presence of major market players in the region. Whereas, Asia-Pacific is anticipated to exhibit the highest CAGR over the forecast period 2022-2028. Factors such as increasing government initiatives to improve health care, as well as a rising number of research and development activities, would create lucrative growth prospects for the Live Cell Encapsulation Market across the Asia-Pacific region.

Major market players included in this report are:

BioTime, Inc.

Viacyte, Inc.

Living Cell Technologies Ltd.

Sigilon Therapeutics, Inc.

Blacktrace Holdings Ltd

Sernova Corporation

Neurotech Pharmaceuticals, Inc.

Gloriana Therapeutics

Beta-O2 Technologies, Inc.

Altucell, Inc.

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming eight years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within each of the regions and countries involved in the study. Furthermore, the report also caters the detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, the report shall also incorporate available opportunities in micro markets for stakeholders to invest

along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Manufacturing Technique

Simple Dripping

Electrostatic Dripping

Liquid Jet Break Up

Coaxial Airflow

Vibrating Jet

Jet Cutting

Rotating Disk Atomization

By Polymer Type

Alginate

HEMA-MMA

Chitosan

Siliceous Encapsulates

Cellulose Sulfate

PAN-PVC

Other Polymers

By Application

Drug Delivery

Regenerative medicine

Cell Transplantation

Probiotics

Research

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan
Australia
South Korea
RoAPAC
Latin America
Brazil
Mexico
Rest of the World

Furthermore, years considered for the study are as follows:

Historical year – 2018, 2019, 2020

Base year – 2021

Forecast period – 2022 to 2028

Target Audience of the Global Live Cell Encapsulation Market in Market Study:

Key Consulting Companies & Advisors
Large, medium-sized, and small enterprises
Venture capitalists
Value-Added Resellers (VARs)
Third-party knowledge providers
Investment bankers
Investors

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