

Live Cell Encapsulation Market by Technique (Dripping (Simple, Electrostatic), Coaxial Airflow, Liquid Jet), Polymer (Alginate, Chitosan, Silica, Cellulose Sulfate), Application (Probiotics, Transplant, Drug Delivery, Research) - Forecast to 2024

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Abstracts

“The live cell encapsulation market is projected to grow at a CAGR of 3.2% during the forecast period”

The global live cell encapsulation market is projected to reach USD 303 million by 2024 from USD 250 million in 2018, at a CAGR of 3.2%. The growth of this market is majorly driven by factors such as the ongoing technological advancements in live cell encapsulation, growing public-private investments in the field of live cell encapsulation, increasing number of target patient population, and the rising awareness related to the clinical role of encapsulated cells in disease management. However, the limited availability of high-quality raw materials, and the significant adoption of alternative therapies are expected to restrain the growth of this market during the forecast period.

“The electrostatic dripping segment to witness the highest growth rate in the live cell encapsulation market, by manufacturing technique”

Based on manufacturing technique, the live cell encapsulation market is segmented into simple dripping, electrostatic dripping, coaxial airflow, liquid-jet break-up, vibrating-jet technique, jet cutting, and rotating disk atomization. The electrostatic dripping segment is expected to account for the high growth rate of this market in 2018, owing to the growing demand for electrostatic dripping as a result of the procedural benefits such as retention of cell viability & potency, and preservation of plant oxidants.

“Alginate segment to witness the highest growth rate in the live cell encapsulation market, by polymer type”

Based on polymer type, the live cell encapsulation market has been segmented into alginate, HEMA-MMA (hydroxyethyl methacrylate-methyl methacrylate), chitosan, siliceous encapsulates, cellulose sulfate, PAN-PVC [poly (acrylonitrile vinyl chloride)], and other polymers. The alginate segment is estimated to grow at the highest CAGR during the forecast period majorly due to the procedural benefits offered such as the capability to encapsulate living cells with wide pore size distribution (5–200 nm) and high permeability of alginate.

“The drug therapy segment to account for the largest share of the live cell encapsulation market, by application, in 2018”

Based on application, the live cell encapsulation market is segmented into drug delivery, regenerative medicine, cell transplantation, probiotics, and research. The drug delivery segment is expected to account for the largest share of the live cell encapsulation market in 2018. The growth of this application segment can be attributed to the rising incidence of target diseases and increasing research activities on live cell encapsulation in major countries across the globe.

“The North America market to grow at the highest CAGR during the forecast period”

The live cell encapsulation market is segmented into five major regions, namely, North America, Europe, the Asia Pacific, Latin America, and the Middle East and Africa. The North America market is expected to grow at the highest CAGR during the forecast period majorly due to the increasing research activities in the field of cell encapsulation coupled with the growing public-private investments for cell encapsulation research practices. Furthermore, the increasing clinical data for the efficacy of the cell encapsulation technique and the rising adoption of cell encapsulation techniques among medical professionals are the other factors supporting the growth of this market.

Breakdown of supply-side primary interviews:

By Company Type: Tier 1–25%, Tier 2–30%, and Tier 3–45%

By Designation: C-level–26%, Director-level–30%, and Others–44%

By Region: North America–35%, Europe–26%, APAC–23%, and RoW–16%

The major players operating in this market include BioTime, Inc. (US), Reed Pacific Pty Ltd. (Australia), Viacyte, Inc. (US), Neurotech Pharmaceuticals, Inc. (US), Living Cell Technologies Ltd. (Australia), Merck KGAA (Germany), Sigilon Therapeutics, Inc. (US), Encapsys, LLC (US), Evonik Industries (Germany), Lycored (Israel), MiKroCaps (Slovenia), B?CHI Labortechnik AG (Germany), Blacktrace Holdings Ltd (UK), Sernova Corporation (Canada), and Balchem Corporation (US), among others.

Research Coverage

This report studies the live cell encapsulation market based on manufacturing technique, polymer type, application, and region. The report also studies factors (such as drivers, restraints, opportunities, and challenge) affecting market growth and provides details of the competitive landscape for market leaders. Furthermore, the report analyzes micromarkets with respect to their individual growth trends and forecasts the revenue of the market segments with respect to five major regions (and the respective countries in these regions).

Key Benefits of Buying the Report

This report focuses on various levels of analysis—industry trends, market share of top players, and company profiles, which together form basic views and analyze the competitive landscape, emerging segments of the live cell encapsulation market, and high-growth regions and their drivers, restraints, opportunities, and challenge. The report will help both established firms as well as new entrants/smaller firms to gauge the pulse of the market and garner greater market shares.

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