

Global Live Cell Encapsulation Market Report and Forecast 2024-2032

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Report description:

Global Live Cell Encapsulation Market Report and Forecast 2024-2032

Global Live Cell Encapsulation Market Outlook

The global live cell encapsulation market size was valued at USD 258.2 million in 2023, driven by a confluence of technological, clinical, and commercial trends across the globe. The market size is anticipated to grow at a CAGR of 3.6% during the forecast period of 2024-2032 to achieve a value of USD 356.5 million by 2032.

Live Cell Encapsulation: Introduction

Live cell encapsulation is a cutting-edge technique that involves enclosing living cells within a biocompatible, semi-permeable barrier. This barrier effectively shields the encapsulated cells from direct external factors yet permit the exchange of essential nutrients and metabolic waste products. By providing a controlled environment, encapsulation improves cell viability, longevity, and functionality. This technology has garnered attention in biomedicine and biotechnology for its potential applications in tissue engineering, drug delivery, and to transplant cells without the typical concerns of immune rejection.

Key Trends in the Global Live Cell Encapsulation Market

The global live cell encapsulation market was witnessing a transformative phase driven by a confluence of technological, clinical, and commercial trends. A pronounced shift towards regenerative medicine was invigorating the demand for encapsulation technologies, offering unprecedented solutions in drug delivery and cellular therapies. With technological breakthroughs paving the way, advanced biocompatible materials have emerged as game-changers, broadening the horizons of encapsulation applications.

Furthermore, the landscape was brimming with collaborative ventures, as research institutions joined forces with industry behemoths to expedite encapsulation innovations. This synergy was further buoyed by a surge in investments, underscoring the market's robust growth potential. However, intertwined with this optimism were challenges, predominantly regulatory intricacies,

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and cost implications. Additionally, the geographic epicentre of activities was gradually expanding, with emerging markets showcasing a burgeoning interest in this domain, driven by enhanced healthcare infrastructure and intensified R&D endeavours.

Global Live Cell Encapsulation Market Segmentation

Market Breakup by Manufacturing Techniques

- Simple Dripping
- Electrostatic Dripping
- Coaxial Airflow
- Liquid-Jet Break-Up
- Vibrating-Jet Technique
- Jet Cutting
- Rotating Disk Atomization

Market Breakup by Polymer Type

- Alginate
- HEMA-MMA (Hydroxyethyl Methacrylate-Methyl Methacrylate)
- Chitosan
- Siliceous Encapsulates
- Cellulose Sulphate
- PAN-PVC (Poly Acrylonitrile Vinyl Chloride)
- Others

Market Breakup by Application

- Drug Delivery
- Regenerative Medicine
- Cell Transplantation
- Probiotics
- Research

Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Global Live Cell Encapsulation Market Overview

The global live cell encapsulation market represents a dynamic sector at the nexus of biotechnology and medicine. Rooted in the principle of enclosing living cells within a semi-permeable, biocompatible membrane, this technology promises enhanced cell survival, controlled therapeutic delivery, and reduced immune reactions. The market's momentum is primarily fuelled by the burgeoning demand in regenerative medicine and the potential for novel treatment modalities for chronic diseases. With advancements in material science, innovative biocompatible matrices are continually being developed, broadening encapsulation applications. The market is further invigorated by robust investments, both from venture capitals and pharmaceutical giants, eager to harness the potential of cell encapsulation.

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Collaborative efforts between academia and industry are also on the rise, seeking to streamline research and commercialization. Yet, the journey isn't without challenges, with regulatory hurdles and cost considerations posing significant barriers. Nonetheless, with its transformative potential, the global live cell encapsulation market is poised for substantial growth, with a keen eye on innovations and patient-centric solutions.

Global Live Cell Encapsulation Market: Competitor Landscape

The key features of the market report include patent analysis, grants analysis, clinical trials analysis, funding and investment analysis, partnerships, and collaborations analysis by the leading key players. The major companies in the market are as follows:

- Merck KGaA
- ViaCyte, Inc.
- Living Cell Technologies Limited
- Balchem Inc.
- Lycored
- BUCHI Labortechnik AG
- Sigilon Therapeutics, Inc.
- Encapsys, LLC.
- Evonik Industries AG
- MIKROCAPS
- Neurotech Pharmaceuticals
- BioTime, Inc
- Gloriana Therapeutics

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Table of Contents:

- 1 Preface
 - 1.1 Objectives of the Study
 - 1.2 Key Assumptions
 - 1.3 Report Coverage - Key Segmentation and Scope
 - 1.4 Research Methodology
- 2 Executive Summary
- 3 Global Live Cell Encapsulation Market Overview
 - 3.1 Global Live Cell Encapsulation Market Historical Value (2017-2023)
 - 3.2 Global Live Cell Encapsulation Market Forecast Value (2024-2032)
- 4 Global Live Cell Encapsulation Market Landscape
 - 4.1 Global Live Cell Encapsulation Developers Landscape
 - 4.1.1 Analysis by Year of Establishment
 - 4.1.2 Analysis by Company Size
 - 4.1.3 Analysis by Region
 - 4.2 Global Live Cell Encapsulation Product Landscape
 - 4.2.1 Analysis by Manufacturing Techniques
 - 4.2.2 Analysis by Polymer Type

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- 4.2.3 Analysis by Application
- 5 Global Live Cell Encapsulation Market Dynamics
 - 5.1 Market Drivers and Constraints
 - 5.2 SWOT Analysis
 - 5.3 Porter's Five Forces Model
 - 5.4 Key Demand Indicators
 - 5.5 Key Price Indicators
 - 5.6 Industry Events, Initiatives, and Trends
 - 5.7 Value Chain Analysis
- 6 Global Live Cell Encapsulation Market Segmentation
 - 6.1 Global Live Cell Encapsulation Market by Manufacturing Techniques
 - 6.1.1 Market Overview
 - 6.1.2 Simple Dripping
 - 6.1.3 Electrostatic Dripping
 - 6.1.4 Coaxial Airflow
 - 6.1.5 Liquid-Jet Break-Up
 - 6.1.6 Vibrating-Jet Technique
 - 6.1.7 Jet Cutting
 - 6.1.8 Rotating Disk Atomization
 - 6.2 Global Live Cell Encapsulation Market by Polymer Type
 - 6.2.1 Market Overview
 - 6.2.2 Alginate
 - 6.2.3 HEMA-MMA (HydroxyethylMethacrylate-Methyl Methacrylate)
 - 6.2.4 Chitosan
 - 6.2.5 Siliceous Encapsulates
 - 6.2.6 Cellulose Sulphate
 - 6.2.7 PAN-PVC (Poly Acrylonitrile Vinyl Chloride)
 - 6.2.8 Others
 - 6.3 Global Live Cell Encapsulation Market by Application
 - 6.3.1 Market Overview
 - 6.3.2 Drug Delivery
 - 6.3.3 Regenerative Medicine
 - 6.3.4 Cell Transplantation
 - 6.3.5 Probiotics
 - 6.3.6 Research
 - 6.4 Global Live Cell Encapsulation Market by Region
 - 6.4.1 Market Overview
 - 6.4.2 North America
 - 6.4.3 Europe
 - 6.4.4 Asia Pacific
 - 6.4.5 Latin America
 - 6.4.6 Middle East and Africa
- 7 North America Live Cell Encapsulation Market
 - 7.1 Market Share by Country
 - 7.2 United States of America
 - 7.3 Canada
- 8 Europe Live Cell Encapsulation Market

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- 8.1 Market Share by Country
- 8.2 United Kingdom
- 8.3 Germany
- 8.4 France
- 8.5 Italy
- 8.6 Others
- 9 Asia Pacific Live Cell Encapsulation Market
 - 9.1 Market Share by Country
 - 9.2 China
 - 9.3 Japan
 - 9.4 India
 - 9.5 ASEAN
 - 9.6 Australia
 - 9.7 Others
- 10 Latin America Live Cell Encapsulation Market
 - 10.1 Market Share by Country
 - 10.2 Brazil
 - 10.3 Argentina
 - 10.4 Mexico
 - 10.5 Others
- 11 Middle East and Africa Live Cell Encapsulation Market
 - 11.1 Market Share by Country
 - 11.2 Saudi Arabia
 - 11.3 United Arab Emirates
 - 11.4 Nigeria
 - 11.5 South Africa
 - 11.6 Others
- 12 Patent Analysis
 - 12.1 Analysis by Type of Patent
 - 12.2 Analysis by Publication year
 - 12.3 Analysis by Issuing Authority
 - 12.4 Analysis by Patent Age
 - 12.5 Analysis by CPC Analysis
 - 12.6 Analysis by Patent Valuation
 - 12.7 Analysis by Key Players
- 13 Grants Analysis
 - 13.1 Analysis by year
 - 13.2 Analysis by Amount Awarded
 - 13.3 Analysis by Issuing Authority
 - 13.4 Analysis by Grant Application
 - 13.5 Analysis by Funding Institute
 - 13.6 Analysis by NIH Departments
 - 13.7 Analysis by Recipient Organization
- 14 Funding Analysis
 - 14.1 Analysis by Funding Instances
 - 14.2 Analysis by Type of Funding
 - 14.3 Analysis by Funding Amount

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- 14.4 Analysis by Leading Players
- 14.5 Analysis by Leading Investors
- 14.6 Analysis by Geography
- 15 Partnership and Collaborations Analysis
 - 15.1 Analysis by Partnership Instances
 - 15.2 Analysis by Type of Partnership
 - 15.3 Analysis by Leading Players
 - 15.4 Analysis by Geography
- 16 Regulatory Framework
 - 16.1 Regulatory Overview
 - 16.1.1 US FDA
 - 16.1.2 EU EMA
 - 16.1.3 INDIA CDSCO
 - 16.1.4 JAPAN PMDA
 - 16.1.5 Others
- 17 Supplier Landscape
 - 17.1 Merck KGaA
 - 17.1.1 Financial Analysis
 - 17.1.2 Product Portfolio
 - 17.1.3 Demographic Reach and Achievements
 - 17.1.4 Mergers and Acquisitions
 - 17.1.5 Certifications
 - 17.2 ViaCyte, Inc.
 - 17.2.1 Financial Analysis
 - 17.2.2 Product Portfolio
 - 17.2.3 Demographic Reach and Achievements
 - 17.2.4 Mergers and Acquisitions
 - 17.2.5 Certifications
 - 17.3 Living Cell Technologies Limited
 - 17.3.1 Financial Analysis
 - 17.3.2 Product Portfolio
 - 17.3.3 Demographic Reach and Achievements
 - 17.3.4 Mergers and Acquisitions
 - 17.3.5 Certifications
 - 17.4 Balchem Inc.
 - 17.4.1 Financial Analysis
 - 17.4.2 Financial Portfolio
 - 17.4.3 Demographic Reach and Achievements
 - 17.4.4 Mergers and Acquisitions
 - 17.4.5 Certifications
 - 17.5 Lycored
 - 17.5.1 Financial Analysis
 - 17.5.2 Product Portfolio
 - 17.5.3 Demographic Reach and Achievements
 - 17.5.4 Mergers and Acquisitions
 - 17.5.5 Certifications
 - 17.6 BUCHI Labortechnik AG

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- 17.6.1 Financial Analysis
- 17.6.2 Product Portfolio
- 17.6.3 Demographic Reach and Achievements
- 17.6.4 Mergers and Acquisitions
- 17.6.5 Certifications
- 17.7 Sigilon Therapeutics, Inc.
 - 17.7.1 Financial Analysis
 - 17.7.2 Product Portfolio
 - 17.7.3 Demographic Reach and Achievements
 - 17.7.4 Mergers and Acquisitions
 - 17.7.5 Certifications
- 17.8 Encapsys, LLC.
 - 17.8.1 Financial Analysis
 - 17.8.2 Product Portfolio
 - 17.8.3 Demographic Reach and Achievements
 - 17.8.4 Mergers and Acquisitions
 - 17.8.5 Certifications
- 17.9 Evonik Industries AG
 - 17.9.1 Financial Analysis
 - 17.9.2 Product Portfolio
 - 17.9.3 Demographic Reach and Achievements
 - 17.9.4 Mergers and Acquisitions
 - 17.9.5 Certifications
- 17.10 MIKROCAPS
 - 17.10.1 Financial Analysis
 - 17.10.2 Product Portfolio
 - 17.10.3 Demographic Reach and Achievements
 - 17.10.4 Mergers and Acquisitions
 - 17.10.5 Certifications
- 17.11 Neurotech Pharmaceuticals
 - 17.11.1 Financial Analysis
 - 17.11.2 Product Portfolio
 - 17.11.3 Demographic Reach and Achievements
 - 17.11.4 Mergers and Acquisitions
 - 17.11.5 Certifications
- 17.12 BioTime, Inc.
 - 17.12.1 Financial Analysis
 - 17.12.2 Product Portfolio
 - 17.12.3 Demographic Reach and Achievements
 - 17.12.4 Mergers and Acquisitions
 - 17.12.5 Certifications
- 17.13 Gloriana Therapeutics
 - 17.13.1 Financial Analysis
 - 17.13.2 Product Portfolio
 - 17.13.3 Demographic Reach and Achievements
 - 17.13.4 Mergers and Acquisitions
 - 17.13.5 Certifications

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- 18 Global Live Cell Encapsulation Market - Distribution Model (Additional Insight)
 - 18.1 Overview
 - 18.2 Potential Distributors
 - 18.3 Key Parameters for Distribution Partner Assessment
- 19 Key Opinion Leaders (KOL) Insights (Additional Insight)
- 20 Company Competitiveness Analysis (Additional Insight)
 - 20.1 Very Small Companies
 - 20.2 Small Companies
 - 20.3 Mid-Sized Companies
 - 20.4 Large Companies
 - 20.5 Very Large Companies
- 21 Payment Methods (Additional Insight)
 - 21.1 Government Funded
 - 21.2 Private Insurance
 - 21.3 Out-of-Pocket

*Additional insights provided are customisable as per client requirements.

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