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Exosomes Market Forecasts to 2030 – Global Analysis By Product (Exosome Isolation Kits, Exosome Detection and Characterization Kits and Other Products), Source, Technique, End User and By Geography

https://marketpublishers.com/r/ED89A309FA81EN.html
Date: January 2025
Pages: 150
Price: US$ 4,150.00 (Single User License)
ID: ED89A309FA81EN

Abstracts

According to Stratistics MRC, the Global Exosomes Market is accounted for $177.4 million in 2024 and is expected to reach $884.31 million by 2030 growing at a CAGR of 30.7% during the forecast period. Exosomes are tiny, membrane-bound extracellular vesicles secreted by various cell types into bodily fluids. Typically 30-150 nanometres in diameter, they carry bioactive molecules such as proteins, lipids, and nucleic acids, serving as intercellular communication vehicles. Exosomes play crucial roles in physiological processes, including immune responses and tissue repair, as well as pathological conditions like cancer, neurodegenerative diseases, and infections. Their unique properties have made them a focus in diagnostics and therapeutic delivery systems, offering potential for precision medicine applications.

According to the American Cancer Society, an estimated 1.9 million new cancer cases and 609,360 cancer deaths were recorded by the end of 2022.

Market Dynamics:

Driver:

Growing applications in drug delivery

Exosomes serve as natural carriers for targeted drug delivery, offering high biocompatibility and low immunogenicity. Their ability to encapsulate therapeutic

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molecules, such as RNA, proteins, and small drugs, enhances treatment efficacy. Moreover, advancements in engineering exosomes to improve drug-loading capacity and targeting precision have fuelled their adoption. Pharmaceutical companies are increasingly investing in exosome-based drug delivery systems, recognizing their potential for precision medicine. This trend is expected to significantly boost market growth in the coming years.

Restraint:

High cost of research and development

Developing exosome-based therapies and diagnostics requires substantial investment in advanced technologies, clinical trials, and regulatory approvals. These expenses often limit the ability of smaller companies and startups to enter the market. Moreover, the long development timeline increases financial risks, discouraging potential investors. High R&D costs also lead to increased prices for end products, making them less accessible to healthcare providers and patients. Consequently, the overall growth and widespread adoption of exosome-based innovations face considerable delays and obstacles.

Opportunity:

Therapeutic potential in rare diseases

Exosomes act as natural carriers for focused providing novel solutions for diseases, drug delivery with few therapy alternatives. Their capacity to traverse biological barriers, such as the blood-brain barrier, increases their usefulness in treating complex uncommon diseases. Furthermore, advances in exosome isolation and engineering have permitted the development of targeted medicines. Growing interest in personalized medicine and orphan drug development further propels research and investment in this field. Consequently, the exosome market is witnessing robust expansion due to its transformative potential in treating rare diseases.

Threat:

Intellectual property disputes

Patent conflicts can delay the development and commercialization of new exosome-based therapies and diagnostic tools. Companies involved in litigation often face

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increased legal costs, diverting resources from research and development. IP disputes can also lead to exclusivity in the market, limiting competition and driving up prices. Smaller firms may struggle to enter the market due to patent protections held by larger players. Overall, these disputes slow down the growth and accessibility of exosome-based products and services.

Covid-19 Impact

The COVID-19 pandemic positively impacted the exosomes market. The pandemic prompted an unprecedented surge in research efforts to understand the virus. Exosomes, being small vesicles involved in cell communication, were studied to better understand the virus's mechanisms of infection and its effects on host cells. This led to increased demand for exosome-related research tools and diagnostics for studying COVID-19. Additionally, several COVID-19 vaccines were developed and authorized for emergency use during the pandemic.

The exosome isolation kits segment is expected to be the largest during the forecast period

The exosome isolation kits segment is estimated to have a lucrative growth, due to the efficient and reliable methods for isolating exosomes from various biological samples. These kits enable researchers to extract high-quality exosomes, essential for downstream applications such as diagnostics and therapeutics. With increasing demand for non-invasive diagnostic methods, these kits support liquid biopsy advancements, a key growth area. Moreover, the growing emphasis on personalized medicine further drives the need for precise exosome isolation tools. As a result, the exosome isolation kit segment contributes significantly to market expansion by enhancing the accuracy and scope of exosome-related research and applications.

The diagnostic laboratories segment is expected to have the highest CAGR during the forecast period

The diagnostic laboratories segment is anticipated to witness the highest CAGR growth during the forecast period, by leveraging their potential in non-invasive diagnostics. Exosomes contain biomarkers like proteins, lipids, and nucleic acids that aid in detecting diseases at an early stage. These laboratories utilize advanced technologies to isolate and analyze exosomes, enabling precise diagnosis of cancer, neurodegenerative disorders, and cardiovascular diseases. Collaborations between labs and biotech firms enhance the development of innovative exosome-based

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diagnostic tools. As awareness of exosome applications grows, diagnostic laboratories are becoming pivotal in expanding the exosomes market globally.

Region with largest share:

Asia Pacific is expected to hold the largest market share during the forecast period due to increased applications of exosomes in diagnostics, therapeutics, and drug delivery. Advances in biotechnology and the growing focus on personalized medicine are key drivers. Countries like China, Japan, and India are witnessing rapid advancements in exosome-based research and commercialization. The demand for non-invasive diagnostic techniques and the rising prevalence of diseases such as cancer and neurodegenerative disorders are further fuelling market expansion. Additionally, the presence of a robust healthcare infrastructure and increasing investments are boosting market opportunities in this region.

Region with highest CAGR:

North America is expected to have the highest CAGR over the forecast period, owing to advancements in biotechnology, increasing research in regenerative medicine, and rising demand for personalized therapies. Exosomes, as carriers of RNA, proteins, and lipids, are crucial in diagnostics and drug delivery systems. The market is benefiting from the expanding applications in cancer treatment, neurological disorders, and immunotherapy. Additionally, robust support from research institutions and healthcare funding in the U.S. and Canada is propelling innovation.

Key players in the market

Some of the key players profiled in the Exosomes Market include Evox Therapeutics, Capricor Therapeutics, EXO Biologics, Aethlon Medical, Coya Therapeutics, Aegle Therapeutics Corporation, Aragen Bioscience, RoosterBio, Inc., Bio-Techne, Thermo Fisher Scientific, Inc., Danaher and Hologic Inc.

Key Developments:

In June 2024, EXO Biologics announced ongoing partnerships with multiple entities in Europe and the US, emphasizing their strategy to license the ExoPulse platform to accelerate drug development. This approach allows EXO Biologics to focus on direct drug development while enabling ExoXpert to support other companies through licensing agreements.

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In April 2024, ExoXpert, a subsidiary of EXO Biologics, entered a strategic partnership with Neucore Bio. This collaboration focuses on evaluating advanced exosome loading using ExoXpert's ExoPulse platform to optimize the delivery of proprietary payloads into exosomes.

In July 2023, Evox completed the acquisition of Codiak Biosciences' engEx-AAV™ technology platform. This acquisition includes all intellectual property rights associated with the technology, which facilitates the active loading of adeno-associated virus (AAV) into exosomes, thereby improving delivery efficacy and shielding AAVs from neutralizing antibodies

Products Covered:

- Exosome Isolation Kits
- Exosome Detection and Characterization Kits
- Exosome Therapeutics
- Exosome Diagnostic Kits
- Other Products

Sources Covered:

- Human-Derived Exosomes
- Animal-Derived Exosomes
- Plant-Derived Exosomes

Techniques Covered:

- Exosome Isolation Techniques
- Exosome Characterization Techniques

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End Users Covered:

- Pharmaceutical and Biopharmaceutical Companies
- Academic and Research Institutes
- Diagnostic Laboratories
- Contract Research Organizations (CROs)
- Hospitals and Clinics
- Other End Users

Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK
  - Italy
  - France
  - Spain

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- Rest of Europe
- Asia Pacific
  - Japan
  - China
  - India
  - Australia
  - New Zealand
  - South Korea
  - Rest of Asia Pacific
- South America
  - Argentina
  - Brazil
  - Chile
  - Rest of South America
- Middle East & Africa
  - Saudi Arabia
  - UAE
  - Qatar
  - South Africa
  - Rest of Middle East & Africa

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What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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