

Global Airlift Bioreactor Market Size Study, by Product (Internal Airlift Loop Bioreactor, External Airlift Loop Bioreactor), by Capacity (5L, 7L, 10L, 30L), by Material (Stainless Steel, Glass), by Usage (Single-use / Disposal, Reusable), by Production Scale (Laboratory Scale, Pilot-scale, Large Scale), by End-User (Biopharmaceutical Companies, Contract Research Organizations (CROs)/ Contract Development and Manufacturing Organizations (CDMOs), Research and Development Companies) and Regional Forecasts 2022-2032

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Abstracts

Global Airlift Bioreactor Market is valued at approximately USD 2.44 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 11.23% over the forecast period 2024-2032. Airlift bioreactors are specialized bioreactors that leverage air or gas to circulate and mix the culture medium without the need for mechanical agitation.

These bioreactors consist of a central riser and an outer downcomer where the fluid circulates in a loop, driven by the density difference between the gas-liquid mixture in the riser and the liquid in the downcomer. This design ensures gentle mixing, reducing shear stress on sensitive cells, making airlift bioreactors particularly suitable for cultivating delicate organisms such as plant and animal cells in various bioprocesses.

The Global Airlift Bioreactor Market is driven by escalating demand for airlift bioreactors and increasing R&D activities within the biotechnology sector, alongside the rapidly expanding biopharmaceutical industry, are significantly propelling market growth.

Additionally, the rising demand for single-use bioreactors and the growing number of

clinical and preclinical trials further drive the market. These reactors are crucial in optimizing bioprocesses, enhancing productivity, and ensuring the viability of sensitive cell cultures. However, high costs of bioreactor implementation and technical complexity in bioprocesses is going to impede the overall demand for the market during the forecast period 2024-2032.

The key regions considered for the market study includes Asia Pacific, North America, Europe, Latin America, and Rest of the World. In 2023, North America is poised to dominate the airlift bioreactors market throughout the forecast period, primarily due to the heightened R&D activities in the pharmaceutical sector. The presence of well-established biopharmaceutical companies and key operating players in the region further contributes to the market's expansion. This regional dominance is expected to persist, driven by continuous advancements and substantial investments in biotechnology and pharmaceutical research.

Major market players included in this report are:

Sartorius AG

Lonza

Shree Biocare

Knik Technology

Electrolab Biotech

Rotech Inc.

Cellexus

Solida Biotech GmbH

Zeta GmbH

Kuhner Shaker

Merck KGaA

Thermo Fisher Scientific

Danaher Corporation

Eppendorf AG

GE Healthcare

The detailed segments and sub-segments of the market are explained below:

By Product:

- Internal Airlift Loop Bioreactor
- External Airlift Loop Bioreactor

By Capacity:

- 5L
- 7L
- 10L
- 30L

By Material:

- Stainless Steel

- Glass

By Usage:

- Single-use / Disposal

- Reusable

By Production Scale:

- Laboratory Scale

- Pilot-scale

- Large Scale

By End-User:

- Biopharmaceutical Companies

- Contract Research Organizations (CROs)/ Contract Development and Manufacturing Organizations (CDMOs)

- Research and Development Companies

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

- RoLA

Middle East & Africa:

- Saudi Arabia

- South Africa

- RoMEA

Years considered for the study are as follows:

- Historical year – 2022
- Base year – 2023
- Forecast period – 2024 to 2032

Key Takeaways:

- Market Estimates & Forecast for 10 years from 2022 to 2032.
- Annualized revenues and regional level analysis for each market segment.
- Detailed analysis of geographical landscape with Country level analysis of major regions.
- Competitive landscape with information on major players in the market.
- Analysis of key business strategies and recommendations on future market approach.
- Analysis of competitive structure of the market.
- Demand side and supply side analysis of the market

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