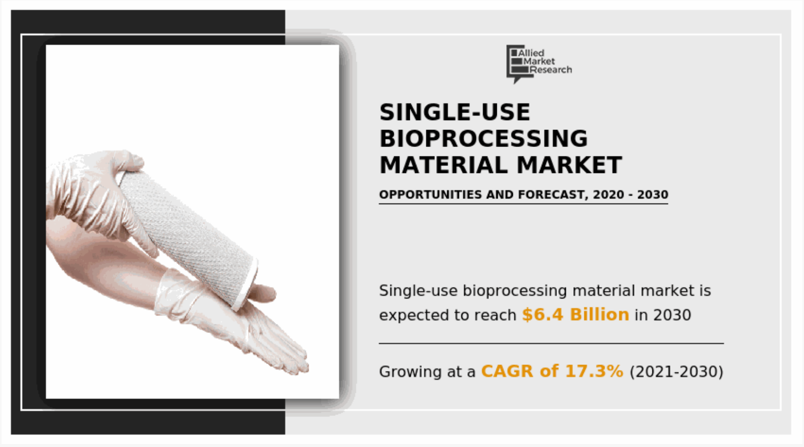
Single-use Bioprocessing Material Market Expected to Reach $6.4 Billion by 2030 | CAGR of 17.3%

Single-use bioprocessing material market report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics.



single-use bioprocessing materials industry 2030

PORTLAND, OREGON, UNITED STATES, November 23, 2023 /EINPresswire.com/ -- The single-use bioprocessing materials market include a variety of systems, which are used for both upstream and downstream processing. The systems used in the upstream processing mainly include bioreactors, bioprocess containers, disposable mixers, media bags, membrane absorbers, and samplers. The systems used in the downstream processing mainly consist of connectors, depth fillers, disposable filter cartridges, tangential flow filters, and tubing. Single-use technologies are disposable products that are intended for one-time use.

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Single-use bioprocessing technology has gained significant traction in the recent years, owing to rapid adoption of disposable bioprocessing equipment by pharmaceutical manufacturers. This has fueled the manufacturers to integrate different materials in the construction of single-use bioprocessing products. These products have also proved beneficial for the small scale pharmaceutical manufacturers. Hence, most biopharmaceutical companies utilize single-use bioprocessing technology for manufacturing vaccines, monoclonal antibodies, and other pharmaceutical components on commercial scale. This has spurred the demand for high-grade plastic and silicone materials in the development of SUB products.

The single-use bioprocessing material industry is expected to witness significant growth during the forecast period due to factors such as increase in prevalence of diabetes, growth in geriatric population, rise in incidence of blindness owing to diabetes, and augment in focus on awareness, which facilitate early diagnosis to control the disease. Although these factors garner the growth of the market, dearth of skilled ophthalmologists and extended approval time for drugs can pose as a major obstacle for the growth of the single-use bioprocessing materials market size. On the other hand, emergence of combined therapies for treatment of diabetic macular edema and the emerging markets of Asia-Pacific & LAMEA are anticipated to provide several opportunities for the single-use bioprocessing material market share.

The single-use bioprocessing material market size in this report is studied on the basis of material, application, and region. On the basis of material, the market is divided into plastic, silicone, and others. On the basis of material, the plastic single-use bioprocessing material segment currently dominates the global single-use bioprocessing material market and this single-use bioprocessing material market trends is expected to continue during the forecast period owing to features of plastics such as low cost, ease of manufacture, versatility, and resistant to damage caused by water. The adoption toward use of plastic materials in single-use bioprocessing has gained traction considerably, in spite of the emerging biopharmaceutical production concerns pertaining to these materials.

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North America dominated the market in 2020, owing to increased demand for biopharmaceuticals owing to the rise in geriatric population. The advantages of single-use bioprocessing (such as high energy efficiency, low water usage, less floor space requirement, reduced installation cost, decreased risk of product cross-contamination, and fast implementation) drive the adoption of the North America single-use bioprocessing material market. However, Asia-Pacific is expected to witness considerable market growth during the forecast period due to presence of favorable government support, rise in private investments, growth in geriatric population, surge in trend of outsourcing to emerging Asian markets, and presence of a skilled workforce in these countries.

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