

# **Recombinant Cell Culture Supplements Market- Global Industry Size, Share, Trends, Opportunity and Forecast, 2018-2028F, By Product (Recombinant Insulin, Recombinant Epidermal Growth Factors, Recombinant Albumin, Recombinant Collagen, Recombinant Transferrin, Recombinant Trypsin, Others), By Application {Regenerative Medicine (Stem Cell Therapies, Cell Therapies, Gene Therapies) and Bio-Production(Monoclonal Antibodies, Recombinant Proteins, Hormones, Vaccines, Others)}, By Expression System (Mammalian Expression System, E. coli Expression System, Yeast Expression System, Others), By End User (Academic & Research Institutions, Biotechnology & Pharmaceutical Companies), By Region and Competition**

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## **Abstracts**

Recombinant Cell Culture Supplements Market was valued at USD 472.76 million in 2022 and is further anticipated to grow at a CAGR of 8.99% during the forecast period, owing to rising demand for biologic drugs. The recombinant cell culture supplements market is expected to continue growing in the coming years, driven by factors such as the advancements in cell culture technologies and rising investment in biopharmaceutical research.

The increasing demand for biologics has been a major driver of the recombinant cell culture supplements market. Biologic drugs are complex molecules that are produced using living cells, which are grown in culture. These drugs are increasingly being used to treat various diseases, such as cancer and autoimmune disorders. As a result, the demand for recombinant cell culture supplements has been on the rise, as they are essential for enhancing cell growth and productivity during the production of biologics.

Advancements in cell culture technologies have also contributed to the growth of the recombinant cell culture supplements market. For instance, single-use bioreactors and perfusion systems have improved cell culture processes by increasing efficiency and reducing costs. These new technologies require specialized cell culture supplements that are optimized for their use, further driving demand for recombinant cell culture supplements.

The rising prevalence of chronic diseases has contributed to the growth of the market. According to the World Health Organization (WHO), chronic diseases such as cancer, diabetes, and cardiovascular diseases are the leading causes of mortality worldwide. Biologic drugs are increasingly being used to treat these diseases, further driving the demand for recombinant cell culture supplements.

The increasing investment in biopharmaceutical research has also contributed to the growth of the market. The pharmaceutical industry is investing heavily in the research and development of new biologic drugs. This investment is driving the demand for recombinant cell culture supplements that can support the development and production of these drugs.

While the recombinant cell culture supplements market is growing rapidly, there are also several challenges that are impeding its growth. The high cost of recombinant cell culture supplements is a major challenge. These supplements are often expensive to produce, which in turn leads to higher prices for customers. This can limit the market potential for these products, particularly in emerging economies where healthcare budgets may be more constrained.

### Rising Demand for Biologics Drugs

The demand for biological drugs has been rising due to their effectiveness in treating various diseases. As biological drugs are produced using living cells grown in culture, the demand for recombinant cell culture supplements has also increased. The

increasing prevalence of chronic diseases, advancements in cell culture technologies, biosimilar development, and personalized medicine are all contributing to the growth of the biologics drug market, which in turn drives the demand for recombinant cell culture supplements. One of the main factors driving the growing demand for biologics is the increasing prevalence of chronic diseases. Conditions such as cancer, autoimmune disorders, and diabetes are on the rise worldwide, and traditional treatments have not been effective in managing these diseases. Biologics, however, have been shown to be highly effective in treating many of these conditions, leading to an increased demand for these drugs.

Patients are increasingly turning to biological drugs due to their perceived effectiveness and fewer side effects compared to traditional small-molecule drugs. Biologic drugs are also favored by patients who have not responded well to traditional treatments. The regulatory environment can also influence the demand for biological drugs. In recent years, regulatory agencies have placed a greater emphasis on the development and approval of biological drugs, which has increased the availability of these drugs to patients.

The growing demand for biologics has also led to increased investment in research and development. Biotech companies are constantly working to develop new biologics for a wide range of conditions, including rare diseases that previously had no effective treatments. The development of biosimilars, which are similar to existing biological drugs but produced by different manufacturers, has also increased competition and reduced the cost of these drugs. As the demand for biological drugs continues to grow, the recombinant cell culture supplements market is expected to continue to grow as well, providing opportunities for innovation and growth in the industry.

### Development of Personalized Medicine

The development of personalized medicine is influencing the growth of the recombinant cell culture supplements market. Personalized medicine involves tailoring treatments to the specific needs of individual patients. This approach requires the development and production of personalized therapeutics, such as gene and cell therapies. These therapies require specialized cell culture supplements, which are used to optimize cell growth and productivity during production.

Advances in genomics, which is the study of the human genome, have enabled scientists to better understand the genetic basis of disease. This knowledge has led to the development of targeted therapies that can be customized to a patient's specific

genetic profile. For example, some cancer treatments are now tailored to the specific genetic mutations of a patient's tumor, which can lead to better outcomes and fewer side effects.

As healthcare costs continue to rise, there is a growing demand for more effective and efficient healthcare. Personalized medicine approaches offer the potential for more targeted and effective treatments, which can lead to better outcomes and reduced healthcare costs in the long term. The regulatory environment can also influence the development of personalized medicine. In recent years, regulatory agencies have placed a greater emphasis on the development and approval of personalized medicine approaches, which has led to increased investment in this field.

The development of personalized medicine is also being driven by advances in technology. New diagnostic tools, such as next-generation sequencing and CRISPR gene editing, are allowing scientists to better understand the genetic basis of diseases and develop targeted therapies. In addition, advances in data analytics are enabling researchers to mine large amounts of genomic and clinical data to identify patterns and develop new treatments.

The trend toward personalized medicine is growing, which is driving the demand for recombinant cell culture supplements. As a result, the recombinant cell culture supplements market is expected to continue to grow, providing opportunities for innovation and growth in the market.

### Rising Prevalence of Chronic Diseases

The rising prevalence of chronic diseases is influencing the growth of the recombinant cell culture supplements market. Chronic diseases such as cancer, diabetes, and cardiovascular diseases are the leading causes of mortality worldwide, and the demand for biological drugs to treat these diseases is increasing. Biologic drugs are produced using living cells grown in culture, which requires the use of recombinant cell culture supplements to optimize cell growth and productivity. Environmental factors such as pollution, exposure to toxins, and infectious diseases can also contribute to the development of chronic diseases. Exposure to air pollution has been linked to the development of respiratory and cardiovascular diseases, while exposure to toxins such as lead and asbestos has been linked to the development of cancer. Genetic factors can also contribute to the development of chronic diseases, with some conditions having a hereditary component. Genetic testing and personalized medicine approaches can help identify people at higher risk of developing certain chronic diseases.

The rising prevalence of chronic diseases is driving the growth of the recombinant cell culture market as more and more patients seek out innovative and effective treatments. In addition, the aging population is also contributing to the growth of this market. As people age, they are more likely to develop chronic diseases, which has led to an increased demand for new and innovative therapies.

As the prevalence of chronic diseases continues to rise, so does the demand for biological drugs and recombinant cell culture supplements. This trend is expected to continue, providing opportunities for innovation and growth in the market.

### Market Segmentation

Global recombinant cell culture supplements market is segmented based on product, application, expression system, end user, and region. Based on product, the market is segmented into Recombinant Insulin, Recombinant Epidermal Growth Factors, Recombinant Albumin, Recombinant Collagen, Recombinant Transferrin, Recombinant Trypsin, and Others. Based on application, the market is further divided into Regenerative Medicine and Bio-Production. Based on regenerative medicine, the market is divided into Stem Cell Therapies, Cell Therapies, and Gene Therapies. Based on bio-production, the market is divided into Monoclonal Antibodies, Recombinant Proteins, Hormones, Vaccines, and Others. Based on the expression system, the market is segmented into Mammalian Expression System, E. coli Expression System, Yeast Expression System, and Others. Based on end users, the market is divided into Biotechnology & Pharmaceutical Companies and Academic & Research Institutions.

### Market Players

Abcam plc., Corning Incorporated, BBI Solutions OEM Limited, FUJIFILM Irvine Scientific, Inc., Gemini Bioproducts, LLC, HiMedia Laboratories, LLC, Kingfisher Biotech, Inc., Lonza Group AG, Merck KGaA, Novus Biologicals, LLC, ThermoFisher Scientific, among others, are some of the key players operating in the global Recombinant Cell Culture Supplements Market.

### Report Scope:

In this report, Global Recombinant Cell Culture Supplements Market has been segmented into the following categories, in addition to the industry trends, which have also been detailed below:

### Recombinant Cell Culture Supplements Market, By Product:

Recombinant Insulin

Recombinant Epidermal Growth Factors

Recombinant Albumin

Recombinant Collagen

Recombinant Transferrin

Recombinant Trypsin

Others

### Recombinant Cell Culture Supplements Market, By Application:

Regenerative Medicine

Bio-Production

### Recombinant Cell Culture Supplements Market, By Regenerative Medicine:

Stem Cell Therapies

Cell Therapies

Gene Therapies

### Recombinant Cell Culture Supplements Market, By Bio-Production:

Monoclonal Antibodies

Recombinant Proteins

Hormones

Vaccines

Others

Recombinant Cell Culture Supplements Market, By Expression System:

Mammalian Expression System

E. coli Expression System

Yeast Expression System

Others

Recombinant Cell Culture Supplements Market, By End User:

Biotechnology & Pharmaceutical Companies

Academic & Research Institutions

Recombinant Cell Culture Supplements Market, By Region:

North America

United States

Canada

Mexico

Europe

Germany

United Kingdom

France

Italy

Spain

Asia-Pacific

China

Japan

South Korea

India

Australia

South America

Brazil

Colombia

Argentina

Middle East & Africa

UAE

Saudi Arabia

South Africa

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the global recombinant cell culture supplements market.

Available Customizations:

With the given market data, TechSci Research offers customizations according to a

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company's specific needs. The following customization options are available for the report:

#### Company Information

Detailed analysis and profiling of additional market players (up to five).

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