

Cell Lysis & Disruption Market Size, Share & Trends Analysis Report By Application (Protein Isolation, Downstream Processing), By Cell Type, By Technique, By Product, By End Use, And Segment Forecasts, 2021 - 2028

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Abstracts

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Cell Lysis & Disruption Market Growth & Trends

The global cell lysis & disruption market size is expected to reach USD 8.37 billion by 2028, registering a CAGR of 9.35% over the forecast period, according to a new report by Grand View Research, Inc. The anticipated revenue growth is attributed to accelerating the adoption of cell lysis and disruption methods during downstream processing to manufacture bio-therapeutics and other animal-based recombinant products. Technological developments in procedures involved in releasing cellular organelles have paved the way for the higher adoption of cell disruption methods.

As retrieval and purification of biopharmaceuticals involve cell disruption, a rise in demand for biopharma would lead to the subsequent growth of the market. In addition, advancements in the field of proteomics, metabolomics, and personalized medicine are expected to fuel progressive changes in this sector. However, the high costs of equipment coupled with the dearth of skilled professionals are expected to restrain revenue generation to a certain extent. The restraint can be addressed as the government organizations are releasing substantial funds to support development in the biotechnology sector.

Enzymatic lysis, owing to higher biological specificity, is likely to register the fastest



CAGR over the forecast period. Manufacturers are embracing the trend of providing synthetic enzymes and pre-formulated kits, which can be used for the extraction and purification of proteins, DNA, and RNA. Sonication instruments in the products available are expected to witness lucrative growth due to higher adoption rates as a result of the reliability on these instruments. Factors attributing to this reliability include complete control allowed on parameters and negligible maintenance.

Among the physical methods, the high product yield obtained by sonication of the liquid sample is attributed to the larger revenue share of the ultrasonic homogenization method/technique. Asia Pacific will be the fastest-growing regional market from 2021 to 20285 due to lucrative opportunities offered by emerging nations, which has attracted investments from global firms in the region. Key companies are engaged in new product development and strategic alliances to maintain their market share.

Cell Lysis & Disruption Market Report Highlights

A rise in the development of biologics has subsequently led to high demand for better bioprocess solutions

The advantages offered by reagent-based methods for isolation of biological products is attributive to the largest share of the segment in 2020

The advantages include an unaltered biological activity of the sample of interest and ideal compatibility with the laboratory reagents

Therefore, key players have developed different detergent-based solutions and buffers, to provide the best possible results for particular tissue types

Mammalian cell culture systems have grabbed substantial attention among biopharmaceutical manufacturers, thus leading to higher demand for cell lysis protocols for the same

Pharmaceutical & biotechnology companies accounted for the largest share as a result of the growing demand for biopharmaceutical products

Substantial research in the development of nucleic-acid derived products is expected to drive progress in this application in the coming years



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