

Plant Cell Culture Equipment Market Size, Share & Trends Analysis Report By End Use (Greenhouse, Field), By Equipment (Seed Germinators, Incubators), By Application, By Region, And Segment Forecasts, 2018 - 2025

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Abstracts

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The global plant cell culture equipment market size is estimated to reach USD 1.05 billion by 2025, according to a new report by Grand View Research, Inc. The global market is estimated to register a CAGR of 13.1% during the forecast years. The demand for transgenic crops has been rising owing to various benefits offered by these crops, such as improvement in the yield, productivity, and quality and development of insect-resistant cultivars in crops. Transgenic plants are the ones whose genomes are modified using genetic engineering processes in order to introduce more species or new traits to the plant. Inserting a combination of genes in a plant makes the plant more productive.

Transgenic plants are also produced to cater to specific needs of the pharmaceutical sector. Emergence of various genetic engineering processes is expected to drive the market over the forecast period. Plant cell culture systems are a potential renewable source of valuable medicinal compounds, colorants, fragrances, and flavors; which are difficult to be produced by chemical synthesis or microbial cells. Plant cell culture technology enables the development of agricultural crops that offer both higher yield and more resistance to pathogens and adverse environmental conditions. Moreover, this technology could be used in providing a reliable and continuous source of plant pharmaceuticals.

Plant cell culture can be used as an alternative to the cultivation or collection of plants. The number of natural products isolated using plant cell cultures is huge and is increasing gradually. On a large scale, unlike the culture of microorganisms, the cells are cultured in a fermenter. The fermentation process offers certain advantages over the collection of plant material or field cultivation for the isolation of high-value chemicals. These advantages include continuous supply of plants as raw material and production of entirely new compounds and plant cells under controlled conditions.

Further key findings from the report suggest:

Rapidly increasing population has boosted the demand for agricultural produce, thereby augmenting the growth of this market

Increasing research and development in the field of cell and tissue engineering has also contributed toward the market development

North America regional market is expected to witness a significant growth owing to increasing research activities in plant cell culture

Key market participants include Thermo Fisher Scientific, Inc. (U.S.); Tecan Group Ltd. (Switzerland); LGC Limited (London); LabRepCo, Inc. (U.S.); Geneq, Inc. (Canada); and Conviron (Canada).

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