

South America Plant Tissue Culture Market Forecast to 2028 – COVID-19 Impact and Regional Analysis – by Type (Instruments, Media & Reagents, and Consumables), Application (Plant Research, Agriculture, Forestry & Technical Grade, and Others), and End Users (Greenhouse, Field, and Laboratory)

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Abstracts

The South America plant tissue culture market is expected to grow from US\$ 37.17 million in 2022 to US\$ 59.91 million by 2028; it is estimated to register a CAGR of 8.3% from 2022 to 2028.

Automation in Tissue Culture Laboratories Bolsters Market Growth

Research studies on automation technology and equipment of test-tube plantlets have been carried out in various developing countries. In manual propagation, the plantlet is grasped and cut at the node point between the cotyledon and stem, which is hardly located and can be easily damaged by the gripper. Using an agricultural intelligent robot to replace manual operation will significantly improve the efficiency and quality of the propagation of plantlets. With the use of robots, the chances of contamination are less as compared to manual propagation. The cost of labor is increasing annually. The cost of a robotic machine will decrease in near future due to the rapid development of electronic and mechanical technology. Therefore, the laboratories are introducing robots so that the procedures are carried out properly and are cost-effective. The high-throughput screening of recombinant protein expression is advantageous during early process development because it identifies optimal expression constructs and process conditions. Simple screening platforms based on microtiter plates are available for microbes and animal cells, but this was not possible for plants until the development of

plant cell packs (PCPs), also known as “cookies,” which provide a versatile and scalable screening tool for recombinant protein production. This will help in developing the plantlets according to the need of the researchers. Due to the use of robotics in plant tissue culture laboratories the market for plant tissue culture is expected to grow.

South America Plant Tissue Culture Market Overview

The South America plant tissue culture market is segmented into Brazil, Argentina, and South America. The demand for fruits and vegetable ingredients is rising in the food & beverages industry in South America, which contributes to the market growth in this region. The expansion of the tourism industry has led to the development of the hotel and restaurant sector in South America, creating new avenues and demand for fruit and vegetables. In addition, consumers in the region prefer to include vegetables and fruits as key ingredients in their daily diet due to the rising awareness of health. Thus, consumer preference for healthier and premium food products such as smoothies, juices, and salads made with natural ingredients amplifying the demand for plant tissue culture in South America.

South America Plant Tissue Culture Market Revenue and Forecast to 2028 (US\$ Million)

South America Plant Tissue Culture Market Segmentation

The South America plant tissue culture market is segmented on the basis of type, application, end users, and country. Based on type, the South America plant tissue culture market is segmented into instrument, media & reagents, and consumables. The instrument segment held the largest market share in 2022. Further, the instrument segment is categorized into incubators, centrifuges, microscopes, sterilizers, and others. Similarly, media & reagents are categorized into murashige and skoog media, linsmaier and skoog media, and others.

Based on application, the South America plant tissue culture market is segmented into plant research, agriculture, forestry & technical grade, and others. The agriculture segment held the largest market share in 2022.

Based on end users, the South America plant tissue culture market is segmented into greenhouse, field, and laboratory. The field segment held the largest market share in 2022.

Based on country, the South America plant tissue culture market is segmented into Brazil, Argentina, and the Rest of South America. Brazil dominated the market in 2022.

Thomas Scientific LLC; Sigma-Aldrich Co LLC; HiMedia Laboratories Pvt Ltd; Caisson Labs Inc.; Alpha Laboratories Ltd.; and Becton, Dickinson and Co. are the leading companies operating in the South America plant tissue culture market.

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