

North 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 North America plant tissue culture market is expected to grow from US\$ 167.46 million in 2022 to US\$ 277.27 million by 2028; it is estimated to record a CAGR of 8.8% from 2022 to 2028.

Increasing Demand for Transgenic Plants Boosts Plant Tissue Culture Market in North America

The DNA compositions of transgenic plants are modified using genetic engineering techniques to introduce a new trait into the plants, which does not occur naturally in them. Genetic modification usually includes either adding one or more genes to the plant genome. Transgenic plants are mainly developed to provide a particular nutrient profile to the crop and to cope with the elevating food demands by increasing yields. Millions of people worldwide suffer from malnutrition, which is more prevalent in developing and underdeveloped countries. According to the World Health Organization (WHO), ~462 million people were underweight in 2019. Per UNICEF, ~50% of the total deaths in children below 5 years of age are due to undernutrition. Moreover, in 2020, ~45.4 million children under the age of 5 were wasted, and ~13.6 million out of these were severely wasted. According to Global Change Data Lab, in 2019, 8.9% of the world's population was undernourished. Undernourished people are those who have calorie intake below minimum energy requirements. Researchers focus on developing

transgenic plants that provide the required calories to meet these calorie requirements. Thus, the demand for transgenic plants is fueling the growth of the plant tissue culture market.

North America Plant Tissue Culture Market Overview

North America holds the largest share of the global plant tissue culture market. The US, Canada, and Mexico are the main contributors to the market in this region. Growing investments in tissue culture techniques and well-established scientific infrastructure are the key factors contributing to the plant tissue culture market in North America. The presence of major market players and start-ups is likely to promote the growth of the market in the US during the forecast period.

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

North America Plant Tissue Culture Market Segmentation

The North America plant tissue culture market is segmented on the basis of type, application, end users, and country. Based on type, the market is segmented into instruments, media & reagents, and consumables. The instruments segment held the largest market share in 2022. The instruments segment is further categorized into incubators, centrifuges, microscopes, sterilizers, and others. Similarly, the media & reagents segment is classified into Murashige and Skoog media, Linsmaier and Skoog media, and others.

based on application, the North 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 North 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 North America plant tissue culture market is segmented into the US, Canada, and Mexico. The US dominated the market in 2022.

Segra International Corp.; JRT Nurseries Inc.; Thomas Scientific LLC; Sigma-Aldrich Co LLC; HiMedia Laboratories Pvt Ltd; Caisson Labs Inc.; and Becton, Dickinson and

Company are the leading players operating in the North America plant tissue culture market.

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