

Plant Genotyping Equipment Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

The global plant genotyping equipment market size reached US\$ 686 Million in 2022. Looking forward, IMARC Group expects the market to reach US\$ 1,203 Million by 2028, exhibiting a growth rate (CAGR) of 9.8% during 2022-2028. The rising demand for high yielding crops, increasing need to improve the tolerance and adaptability of plants, and the thriving agriculture industry represent some of the key factors driving the market. Plant genotyping is the process of identifying the differences in genetic comprehension by analyzing the deoxyribonucleic acid (DNA) sequence with a sample or reference. It relies on next-generation sequencing (NGS) technology to develop plants with high nutritional content and resistance to illnesses and environmental stress. It assists in studying the diversity and evolution of different species, germplasm characterization and seed purity, and marker-assisted selection (MAS). It is used in various fields of agricultural research, such as crop trait development and seed quality control. It can be achieved through various equipment, such as single nucleotide polymorphism (SNP) genotyping equipment, real-time polymerase chain reaction (PCR) instruments, DNA analyzer, and liquid handler. Plant genotyping equipment is used to analyze, identify, and assess genetic markers in the plant. It also promotes crop yield by changing or integrating the genes of plants at the molecular level and during the breeding process.

Plant Genotyping Equipment Market Trends:

At present, there is a rise in the demand for high-yielding crops due to the growing population across the globe. This, along with the thriving agriculture industry, represents one of the key factors supporting the growth of the market. Moreover, the increasing need to improve the tolerance and adaptability of plants to various adverse environments for assuring stable and higher crop production is propelling the growth of the market. Besides this, the growing demand for plant genotyping equipment to understand the genetic characteristics associated with complex plant traits and the

effects of various environmental factors on these traits is positively influencing the market. In addition, there is an increase in the utilization of plant genotyping equipment to identify variants associated with desired phenotypic traits around the world. This, coupled with the rising adoption of modern farming practices, is offering lucrative growth opportunities to industry investors. Apart from this, the escalating demand for plant genotyping equipment to understand the genotype behavior of plants, such as yield, tolerance, and resistance against biotic and abiotic stress, is strengthening the growth of the market. Additionally, the growing demand for SNP genotyping equipment and quantitative trait locus (QTL) for enhancing various plant characteristics, such as high pest resistance, more yield, and improved stress tolerance, is offering a favorable market outlook.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global plant genotyping equipment market report, along with forecasts at the global, regional and country levels from 2023-2028. Our report has categorized the market based on equipment, application and end use.

Equipment Insights:

- SNP Genotyping Equipment
- Real-time PCR Instrument
- DNA Analyzer
- Liquid Handler
- Others

The report has provided a detailed breakup and analysis of the plant genotyping equipment market based on the equipment type. This includes SNP genotyping equipment, real-time PCR instrument, DNA analyzer, liquid handler, and others. According to the report, SNP genotyping equipment represented the largest segment.

Application Insights:

- Plant Research
- Breeding
- Product Development
- Quality Assessment

A detailed breakup and analysis of the plant genotyping equipment market based on the application has also been provided in the report. This includes plant research, breeding, product development, and quality assessment. According to the report, breeding accounted for the largest market share.

End Use Insights:

- Greenhouse
- Field
- Laboratory

A detailed breakup and analysis of the plant genotyping equipment market based on the end use has also been provided in the report. This includes greenhouse, field, and laboratory. According to the report, laboratory accounted for the largest market share.

Regional Insights:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, Europe was the largest market for plant genotyping equipment. Some of the factors driving the Europe plant genotyping equipment market included the growing research and development (R&D) activities in agriculture, development of advanced plant genotyping equipment, increasing food security concerns, etc.

Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in

the global plant genotyping equipment market. Competitive analysis such as market structure, market share by key players, player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided. Some of the companies covered include Agilent Technologies Inc., BGI Genomics, Eurofins Scientific, Evogene Ltd., Illumina Inc., LGC Biosearch Technologies, Merck KgaA, Oxford Nanopore Technologies Limited, PerkinElmer Inc., Promega Corporation, Thermo Fisher Scientific, etc. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

Key Questions Answered in This Report

1. What was the size of the global plant genotyping equipment market in 2022?
2. What is the expected growth rate of the global plant genotyping equipment market during 2023-2028?
3. What are the key factors driving the global plant genotyping equipment market?
4. What has been the impact of COVID-19 on the global plant genotyping equipment market?
5. What is the breakup of the global plant genotyping equipment market based on the equipment?
6. What is the breakup of the global plant genotyping equipment market based on the application?
7. What is the breakup of the global plant genotyping equipment market based on the end use?
8. What are the key regions in the global plant genotyping equipment market?
9. Who are the key players/companies in the global plant genotyping equipment market?

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