

GMO Testing Market is Predicted to Attain \$6.2 Billion by 2031

The GMO Testing Market Size was valued at \$3.9 billion in 2021, and is estimated to reach \$6.2 billion by 2031, growing at a CAGR of 4.8% from 2022 to 2031.

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/EINPresswire.com/ -- The growth of GMO testing can be attributed to several factors, including increasing consumer demand for transparency and information about the food they eat, the need for reliable and accurate

testing methods to ensure compliance with regulatory requirements, and advances in technology that have made testing faster and more precise. North America was the highest revenue contributor, accounting for \$1,558.5 million in 2021, and is estimated to reach \$2,120.1 million by 2031, with a CAGR of 3.3%.



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The [GMO testing market](#) refers to the market for testing genetically modified organisms (GMOs) in food, feed, and other products. GMO testing is important to ensure the safety and quality of these products and to meet regulatory requirements in many countries.

In recent years, the demand for GMO testing has been increasing due to several factors. One of the main drivers of demand is the growing consumer awareness and concern about the use of GMOs in food and other products. Many consumers are seeking non-GMO products, and retailers and manufacturers are responding by labeling their products as non-GMO and conducting GMO testing to verify the claims.

Another factor driving demand for GMO testing is the increasing regulatory requirements in many countries. Several countries have established regulations requiring the labeling or testing of GMOs, and these regulations are expected to become more stringent in the future.

The increasing demand for organic and non-GMO products is also contributing to the GMO Testing Market Growth. Organic and non-GMO certifications often require GMO testing as part of the certification process.

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Overall, the GMO testing market is expected to continue to grow in the coming years, driven by consumer demand, regulatory requirements, and the growth of the organic and non-GMO market segments.

However, the GMO testing market faces certain challenges including a lack of standardized testing methods, lack of awareness, regulatory challenges, limited testing capacity, and resistance from the biotech industry. There is currently no universally accepted standard for GMO testing, which can lead to variability in results and create confusion among consumers and manufacturers.

Despite growing consumer awareness of GMOs, many people still do not understand the science behind GMO testing or the reasons why it is important. This lack of awareness can limit the demand for GMO testing. Also, while regulatory requirements for GMO testing can drive demand, they can also create challenges for companies and governments. For example, different countries may have different regulations or testing requirements, which can create barriers to trade.

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Biotechnologically altered food products are being sold in the market for many years. GMOs contained in human food or feed samples are identified and quantified using polymerase chain reaction (PCR) tests, which further provide the independent confirmation clients require to engage in risk-free trading.

Particularly in Europe, the public discussion about genetically modified crops and new genomic breeding technology is still debated. Opponents ignore current and future benefits in favor of concentrating exclusively on speculative hazards. The adoption of genetically modified crops results in increased agricultural yields, higher farm income, and, in some circumstances, lower chemical pesticide use. Further, specific genetically modified crop sprays encourage less tillage farming, which lowers GHG emissions and supports carbon absorption in the soil. Testing, monitoring, and labeling GMOs have significant economic value for businesses and consumers and agricultural groups.

To detect, safeguard, modify, or keep a seed's genetic identity, seed makers must do GMO testing during their study. To ensure that seed lots are generated with the intended presence

and absence of particular genetically modified traits at the specified purity, seed manufacturers also use GMO testing. A representative sample of the seed lot is tested for the presence of GMOs, and each seed is individually examined as part of the statistical process known as seed testing.

GMO testing gives farmers detailed information about the integrity and composition of crops, which is essential for tracking and buying seeds. GMO testing is essential for grain handlers and mills to separate grain meant for different end users. GMO testing thereby enables grain growers, suppliers, and consumers to make knowledgeable decisions regarding their crops and how they use them. Thus, this is likely to bring GMO Testing Market Opportunities.

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The GMO testing market is analyzed on the basis of technology, crop type, traits and region. On the basis of technology, the market is subdivided into polymerase chain reaction, ELISA test, and strip test. On the basis of crop type, the market is classified into soy, rapeseed/canola, potato, and others. Depending on traits, the market is classified into stacked, herbicide tolerance, and insect resistance. As per region, the GMO Testing Industry is categorized into North America (U.S., Canada, and Mexico), Europe (UK, Germany, France, Italy, Spain, Russia, Sweden, Netherlands, Denmark, Poland, and rest of Europe), Asia-Pacific (China, Japan, India, Australia, South Korea, Thailand, Malaysia, Singapore, New Zealand, and rest of Asia-Pacific), and LAMEA (Brazil, Argentina, South Africa, Middle East, Saudi Arabia, Egypt, Nigeria, and rest of LAMEA).

The players included in the GMO testing market analysis have adopted various developmental strategies, including but not limited to product launches, geographical expansion, and acquisitions to increase their GMO Testing Market Share, gain profitability, and remain competitive in the market. The key players included in the market analysis are ALS Limited, Bio-Rad Laboratories, Inc., EnviroLogix Inc., Eurofins Scientific, Institut Merieux, Intertek Group plc, Koninklijke DSM N.V., LGC Limited, Mérieux NutriSciences, Microbac Laboratories, Inc., Premier Analytics Services, R-Biopharm AG, SGS SA, Thermo Fisher Scientific Inc., and TUV SUD AG.

Key Findings of the Study

Depending on the technology, the polymerase chain reaction segment dominated the global market in the year 2021 and is likely to remain dominant during the GMO Testing Market Forecast period.

As per crop type, the soy segment dominated the global market in the year 2021 and is likely to remain dominant during the forecast period.

By traits, the herbicide tolerance segment dominated the global GMO Testing Market in the year 2021 and is likely to remain dominant during the forecast period.

Region-wise, North America dominated the global market in the year 2021 and is likely to remain dominant during the forecast period.

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