

North America Transgenic Seeds Market By Crop Type (Corn, Soyabean, Cotton, Canola, Others), By Trait (Herbicide tolerance, Insect resistance, Others), By Country, Competition, Forecast and Opportunities, 2020-2030F

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Abstracts

North America Transgenic Seeds Market was valued at USD 12.18 Billion in 2024 and is expected to reach USD 15.23 Billion by 2030 with a CAGR of 6.75% during the forecast period. Agricultural landscape is constantly evolving, driven by the need for sustainable solutions to feed a growing North America population. Transgenic seeds, a product of biotechnological advancements, have emerged as a key player in shaping the future of agriculture.

Transgenic seeds, also known as genetically modified (GM) seeds, are the result of genetic engineering techniques that introduce specific traits into plant DNA. These traits can range from increased resistance to pests and diseases to improved tolerance to environmental stressors such as drought or extreme temperatures. Transgenic seeds market represents a paradigm shift in modern agriculture, offering solutions to some of the most pressing challenges faced by farmers worldwide. As technology continues to advance and stakeholders work towards building a more sustainable future, transgenic seeds will likely play an increasingly vital role in ensuring food security and fostering agricultural resilience on a North America scale.

Key Market Drivers

Increasing Adoption of Technology

Transgenic Seeds Market is experiencing a significant surge, and at the core of this

growth is the increasing adoption of cutting-edge agricultural technology. Technological advancements, particularly in genetic engineering and biotechnology, have become the driving force behind the evolution of transgenic seeds. Farmers worldwide are embracing technology to enhance crop productivity, and transgenic seeds embody the pinnacle of this technological revolution in agriculture. Genetic engineering allows for the precise modification of plant DNA, empowering scientists to imbue seeds with traits that confer resistance to pests, diseases, and environmental stressors. This not only ensures higher yields but also reduces the reliance on chemical inputs, aligning with the North America shift towards sustainable farming practices. In May 2022, Lavie Bio Ltd., a leading agricultural-biologicals company and a subsidiary of Evogene Ltd., announced its successful production and sale of its designated bio-inoculant yield for spring wheat to U.S. customers for the 2022 season. Focused on enhancing food quality, sustainability, and agricultural productivity through microbiological-based products, the company confirmed that preparations for the season were underway, with its latest bio-inoculant yield already allocated and distributed.

The integration of precision agriculture technologies further amplifies the impact of transgenic seeds. Farmers are leveraging data analytics, sensors, and automation to optimize resource allocation, monitor crop health, and tailor cultivation practices. This synergy between technology and transgenic seeds results in increased operational efficiency and resource utilization, fostering a more sustainable and economically viable agricultural ecosystem.

Key Market Challenges

Public Perception and Opposition

In the dynamic landscape of the transgenic seeds market, one formidable challenge looms large – the intricate interplay between public perception and opposition. The public's skepticism and apprehension regarding genetically modified organisms (GMOs) have significant repercussions, shaping the trajectory of the transgenic seeds market. Public perception, often fueled by misinformation and fear, poses a substantial hurdle for the industry. Concerns about the safety of consuming genetically modified crops and the perceived environmental risks associated with transgenic seeds can cast a shadow on market acceptance. Overcoming these misconceptions requires a concerted effort from industry players to engage in transparent communication and education campaigns.

Opposition from various quarters, including environmental groups and advocacy organizations, adds another layer of complexity. Activism against genetically modified crops can influence policy decisions and regulatory frameworks, leading to stringent approval processes and restrictions. This opposition challenges the industry to not only address valid concerns but also to navigate the regulatory landscape with resilience. To surmount these challenges, the transgenic seeds market must proactively engage with the public, fostering open dialogue and providing clear information on the safety and benefits of genetically modified crops. Collaborative initiatives between industry leaders, regulatory bodies, and public advocacy groups are essential to building trust and dispelling misconceptions. In an era where consumer preferences increasingly impact market dynamics, bridging the gap between public perception and the realities of transgenic seeds is crucial for sustainable growth and acceptance in the agricultural landscape.

Key Market Trends

Rapid Advancement in Biotechnology

In the ever-evolving landscape of agriculture, rapid investments in biotechnology stand out as a driving force propelling the transgenic seeds market into new frontiers. Biotechnological advancements, notably the precision and efficiency offered by CRISPR-Cas9 and other gene-editing techniques, are reshaping the future of crop cultivation. In July 2022, Corteva Agriscience, BASF, and MS Technologies entered into an agreement to develop next-generation Enlist E3 soybeans incorporating the nematode-resistant soybean (NRS) trait for farmers in the United States and Canada. This advanced trait is designed to safeguard soybean crops against nematodes, a major pest that can cause significant damage and reduce yields.

The influx of investments into biotechnology is accelerating the pace of innovation in transgenic seed development. Seed developers now have unprecedented tools to precisely engineer desirable traits in crops, from increased resistance to pests and diseases to improved nutritional profiles and environmental adaptability. This surge in biotech investment has unlocked new possibilities, expanding the transgenic seeds market beyond traditional crops. Researchers are exploring genetic modifications in a diverse range of crops, addressing specific regional and North America agricultural challenges.

The key to this biotech-driven growth lies in the agility and adaptability of transgenic seeds. With rapid advancements, the industry can swiftly respond to emerging

agricultural needs, providing farmers with tailored solutions for sustainable and high-yielding crop production. Collaborations between biotechnology firms, research institutions, and agricultural stakeholders are amplifying the impact of these investments. The synergy of expertise and resources is fostering an environment of collective innovation, ensuring that the transgenic seeds market remains at the forefront of agricultural transformation.

Key Market Players

E.I. du Pont de Nemours & Company

Dow AgroSciences LLC

Suntory Holdings Ltd

Syngenta AG

Bayer Crop Science AG

Vilmorin & Cie SA

Report Scope:

In this report, the North America Transgenic Seeds Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Transgenic Seeds Market, By Crop Type:

Corn

Soyabean

Cotton

Canola

Others

Transgenic Seeds Market, By Trait:

Herbicide tolerance

Insect resistance

Others

Transgenic Seeds Market, By Country:

United States

Mexico

Canada

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the North America Transgenic Seeds Market.

Available Customizations:

North America Transgenic Seeds market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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