

Global Silage Additives Market: Analysis By Form (Liquid, and Dry), By Type (Inoculants, Organic Acids, Sugar, Enzymes, Preservatives, and Others), By Application (Cereals, Pulses, and Other Applications) By Region Size and Trends with Impact of COVID-19 and Forecast up to 2029

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Abstracts

Silage is an important means of preservation of fresh fodder for animals for the availability of roughage and nutrients during extreme weather conditions. The global silage additives market encompasses economic activity surrounding the development, production, distribution, and consumption of additives including inoculants, acids, enzymes, and absorbents, among others, that are added to silage for the purpose of improving its quality, storage, and overall feeding value for livestock. The global silage additives market value stood at US\$2.29 billion in 2023, and is expected to reach by US\$3.02 billion by 2029.

Global silage additives market demonstrated a consistent growth, primarily driven by increased emphasis on improving feed utilization and animal health, higher demand for processed food, rapidly expanding livestock industry in many developing countries such as China, India, Brazil, South Asia, etc., rise in the consumption of meat population, growing demand for dairy products, variable weather patterns and climate swings, expanding utilization of meat, and a sudden hike in the cost of forage resulting in growing use of alternatives like silage additives. In addition, constant increase in the animal feed demand, growing mechanization and commercialization of livestock industry in many developed and developing countries, increasing adoption as biofuel feedstock and growing focus of farmers on enhancing feed utilization and improvising animal health is further expected to drive the global silage additives market over the

forecast period. The market is expected to grow at a CAGR of 4.70% over the projected period of 2024-2029.

Market Segmentation Analysis:

By Type: The report provides the bifurcation of the global silage additives market into six segments on the basis of type: inoculants, organic acids, sugar, enzymes, preservatives, and others. Inoculants are the largest and fastest growing segment of global silage additives market owing to increasing demand for heterofermentative inoculants, cost-effectiveness and adaptability of inoculants across different silage conditions and crop types, rising cost of conventional feed ingredients like grains incentivizing farmers to get the most out of their forages, well-established safety profile of inoculant bacteria, growing need to improve livestock productivity and efficiency, and ease of use & compatibility of inoculants with other additives.

By Form: According to the report, the global silage additives market, on the basis of form, can be divided into two segments, namely, liquid and dry. Liquid silage additives market is the largest and fastest growing segment of global silage additives market as a result of increasing focus on animal health and performance, regulatory support for the use of liquid additives, positive shift in farmers and producers preferences towards the use of liquid form due to their perceived ease of use and effectiveness in improving silage quality, increasing adoption of precision agriculture techniques, growing focus of farmers on reduced dry matter losses, hassle-free integration of liquid additives into existing silage management practices, and ease of handling & improved aerobic stability associated with liquid silage additives.

By Application: The report has segmented the global silage additives market into three applications, namely, cereals, pulses, and other applications. Cereals is the largest segment of global silage additives market, driven by growing demand for animal products, high yield potential of cereals compared to other crops, increasing use of corn silage due to their high nutritional and energy content, growing focus of farmers on maximizing animal productivity, rapid expansion of the livestock industry, particularly in regions like Asia-Pacific and Latin America, and added flexibility provided by cereals in terms of harvesting time, allowing farmers to optimize the timing based on factors such as weather conditions and crop maturity. Pulses is the fastest growing segment during the forecasted period of 2024-2029, driven by rising popularity of pulses as silage crops, increasing focus on sustainable farming practices with pulses being a nitrogen-fixing crop, rising use of pulses as a cost-effective source of protein compared to other protein sources like soybean meal, local availability of pulses in many regions, and ongoing

advancements in silage inoculants specifically designed for pulses.

By Region: The report provides insight into the silage additives market based on regions namely, Europe, North America, Asia Pacific, and rest of the world. North America is the largest region of global silage additives market as a result of large meat eating population, increasing number of cattle farms, rise in need for high quality animal proteins, increase in awareness regarding the usability of silage as a substitute for fresh fodder or hay, increasing livestock production, rising pressure from the government to increase local production of meat and reduce costs incurred on meat imports, growing production of corn silage, and presence of major market players such as American Farm Products Inc., Lallemand Inc., Kemin Industries, Inc., Corteva, Inc., etc., in the region. Asia Pacific is the fastest growing region of silage additives market owing to rapid population growth, growing livestock industry, increasing demand for high quality dairy products, rising per capita expenditure for food products, increasing adoption of advanced forage preservation methods like silage by farmers to ensure optimal animal nutrition, changing dynamics of dietary preferences with an increasing inclination towards protein-rich diets, and presence of regional manufacturers offering customized solutions tailored to local crop varieties in countries like China and India.

Market Dynamics:

Growth Drivers: The global silage additives market has been rapidly growing over the past few years, due to factors such as increasing meat and dairy production, growing focus on animal health and nutrition, widespread adoption of silage as a substitute for fresh fodder, increased need for improved silage preservation, etc. To meet the growing demand for meat and dairy products, farmers are striving to increase the productivity of their livestock. High-quality silage can lead to better animal health, improved growth rates, and higher milk and meat production. In addition, unlike fresh fodder which is seasonal, silage allows farmers to store and utilize feed throughout the year, making it particularly beneficial in regions with harsh winters or unpredictable weather patterns. So, as farmers continue to rely more on silage, there is a rising demand for silage additives needed to preserve its quality for animal health and productivity, creating a larger market base for silage additives.

Challenges: However, the global silage additives market growth would be negatively impacted by various challenges such as exorbitant cost of silage additives, growing environmental concerns, etc. Silage additives, such as inoculants or preservatives, add an additional cost to the silage production process. For small-scale farmers or those on a tight budget, the comparatively high cost of applying & buying silage additives might

pose a serious obstacle to market expansion, as farmers become hesitant to invest in something that might not provide a significant enough return on investment (ROI).

Trends: The global silage additives market is projected to grow at a fast pace during the forecasted period, due to surge in use of precision application technology, provision of customized solutions for crop varieties increasing demand for sustainable silage additives, growing adoption of microbial inoculants, ongoing technological advancements, etc. Manufacturers are putting increasing efforts into creating specialized additives that meet the unique requirements of various fodder crops and adjust for local variances, guaranteeing top performance across multiple farming environments. Manufacturers are developing specialized formulations of silage additives tailored to the specific needs of each crop variety, enhancing fermentation and nutrient preservation for that particular crop. Moreover, many companies are setting sustainability goals as part of their corporate social responsibility efforts. So, as awareness about sustainability grows, the demand for sustainable silage additives is expected to continue rising in the forecasted period, boosting the growth of global silage additives market.

Impact Analysis of COVID-19 and Way Forward:

COVID-19 brought in many changes in the world in terms of reduced productivity, loss of life, business closures, closing down of factories and organizations, and shift to an online mode of work. The growth of the global silage additives market was negatively impacted due to COVID-19 pandemic. The COVID-19 pandemic had a detrimental impact on various industries, including, agriculture, animal feed, livestock farming, food processing, and agribusiness. Farmers faced financial challenges as a result of reduced market demand of meat, fluctuating commodity prices, and disruptions in supply of silage additives, resulting in reduced livestock populations & altered feeding practices, forcing farmers to cut costs and reduce extra expenses, including reduced expenditures on inputs like silage additives.

Competitive Landscape:

The global silage additives market is relatively consolidated, with few players accounting for high market shares, and majority of market revenue, especially in developed markets such as North America and Europe. Major companies operating in the market have a wide product portfolio, strong distribution networks, and significant investments in research and development, giving them a competitive edge in the global silage additives market. The key players of the market are:

BASF SE
Dsm-firmenich
Corteva, Inc.
Wynnstay Group PLC
Kemin Industries, Inc.
Volac International Ltd.
Lallemand Inc.
Novonesis (Chr. Hansen A/S)
ESSECO GROUP (ADDCON GmbH)
American Farm Products Inc.
Schaumann BioEnergy Consult GmbH

Market participants are also undertaking a variety of strategic activities to expand their footprint, with important market developments including new product launches, contractual agreements, mergers and acquisitions, higher investments, and collaboration with other organizations. For instance, on November 15, 2022, Alltech, introduced Egalis, a new range of high-quality silage inoculants that maximize nutrient quality, increase forage stability and reduce dry matter loss to help maintain optimal animal performance. Similarly, on March 2023, Volac, announced its new feed additives division as it intensifies its focus on supporting the global animal feed industry to meet the net zero challenge.

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