

Feed Acidifiers Market -Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented by Sub Additive (Fumaric Acid, Lactic Acid, Propionic Acid) , by Animal (Aquaculture, Poultry, Ruminants, Swine), and By Region, Competition

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Abstracts

In 2022, the Global Feed Acidifiers Market reached a valuation of USD 3.25 billion and is poised to witness significant growth in the forecasted period, with an anticipated Compound Annual Growth Rate (CAGR) of 5.17% through 2028. Feed acidifiers represent a type of feed additive employed in animal nutrition to enhance the quality, safety, and efficiency of animal feed, ultimately resulting in improved animal health and performance. These additives typically consist of organic acids or acid salts that are carefully incorporated into animal diets. Feed acidifiers create an acidic environment within the animal's digestive tract, which can effectively inhibit the proliferation of pathogenic bacteria such as Salmonella and E. coli. This, in turn, reduces the risk of foodborne illnesses among animals and subsequently contributes to the safety of human consumption of animal products.

During periods of stress, such as weaning in piglets, there can be imbalances in the pH levels within the digestive tract. Feed acidifiers play a crucial role in stabilizing the gut environment and mitigating the adverse effects of stress on animal health. These additives are commonly employed in poultry diets, including those for broilers, layers, and turkeys, to enhance feed efficiency, control pathogens, and promote gastrointestinal health. Swine producers utilize feed acidifiers to optimize grain digestion and reduce the incidence of digestive disorders in pigs.

The increasing global population and the rise in middle-class incomes have driven the demand for meat, poultry, dairy, and aquaculture products. This heightened demand for animal protein has necessitated more efficient and sustainable approaches to livestock and aquaculture production, wherein feed acidifiers play a crucial role in improving feed conversion rates and overall animal performance. Concerns regarding antibiotic resistance and a growing emphasis on responsible and sustainable farming practices have prompted efforts to reduce the use of antibiotics in animal feed. Feed acidifiers have emerged as alternatives to antibiotics, effectively contributing to the maintenance of animal health and productivity.

Continuous research and development initiatives have led to the introduction of advanced feed acidifiers with enhanced formulations and delivery methods, aimed at improving their efficacy and ease of integration into animal nutrition. The regulatory approval of many feed acidifiers for use in animal nutrition has instilled confidence among producers, encouraging the adoption of these additives in feed formulations while ensuring compliance with regulatory standards.

Key Market Drivers

Technological Advancements

Microencapsulation technology involves encapsulating active ingredients, such as organic acids, in protective coatings. This technology helps to protect acidifiers from premature degradation in the feed, ensuring their release in the animal's digestive tract where they are most effective. Microencapsulation improves the stability and shelf life of feed acidifiers, allowing for more precise dosage control. Coating techniques were used to create acidifier formulations that release their active ingredients gradually. This extended release helps maintain a consistent acidic environment in the animal's gastrointestinal tract, promoting better nutrient absorption and gut health. Technological advancements allowed for the development of feed acidifier blends that combine different organic acids and acid salts to create synergistic effects. These blends were designed to target specific challenges in animal nutrition, such as controlling pathogens, improving feed efficiency, or supporting gut health. Liquid formulations of feed acidifiers became more popular due to their ease of mixing into feed and water systems. Liquid acidifiers were designed to be stable, easy to handle, and accurate in dosing. They offered convenience in large-scale animal production operations.

Advanced delivery systems, such as automated dosing equipment and precision feeders, were developed to ensure accurate and consistent application of feed acidifiers

in commercial feed mills and on farms. These systems helped optimize the distribution of acidifiers in feed. Innovations in pH stabilization techniques helped maintain the stability and effectiveness of acidifiers during feed processing and storage. This was critical to ensure that acidifiers retained their beneficial properties until consumed by animals. Advances in analytical methods and quality assurance technologies allowed for more rigorous testing and monitoring of feed acidifiers. Manufacturers could verify the potency and purity of their products, ensuring they met regulatory standards and customer expectations. Ongoing research and development efforts focused on understanding the specific needs of different animal species and production systems. This led to the formulation of tailored acidifier products designed to address unique challenges in poultry, swine, cattle, and aquaculture. Some technological advancements aimed to make feed acidifiers more sustainable by reducing the environmental impact of their production and use. This included efforts to minimize waste and energy consumption in manufacturing processes. The adoption of digital technologies and data analytics in the feed industry allowed for better monitoring of animal performance and the effects of feed acidifiers. This data-driven approach helped farmers and producers make more informed decisions about feed formulations and acidifier usage. This factor will help in the development of the Global Feed Acidifiers Market.

Increasing Livestock and Aquaculture Production

The world's population is continually growing, leading to increased demand for animal-derived protein sources such as meat, dairy, and fish. This population growth drives the need for efficient and sustainable livestock and aquaculture production. As incomes rise, dietary preferences often shift towards a higher consumption of animal-based protein. This change in dietary habits has a direct impact on the demand for livestock and aquaculture products, which in turn drives the need for feed additives like acidifiers to improve production efficiency. Urbanization is accompanied by changing lifestyles, including dietary preferences. Urban populations tend to consume more animal protein, further boosting demand for livestock and aquaculture products. Rapidly developing economies, particularly in regions like Asia and Latin America, have witnessed significant growth in their livestock and aquaculture sectors. These regions are key contributors to the increasing demand for feed acidifiers. Feed acidifiers play a crucial role in improving feed conversion rates, nutrient absorption, and overall animal health. They help optimize the efficiency and productivity of livestock and aquaculture operations, which is essential for meeting the rising demand for animal protein. Disease outbreaks can have devastating effects on livestock and aquaculture production.

Feed acidifiers are used to promote gut health and reduce the risk of diseases, which is

particularly important in intensive production systems. Concerns about antibiotic resistance have led to efforts to reduce the use of antibiotics in animal feed. Feed acidifiers serve as alternatives to antibiotics, helping to maintain animal health without relying on antimicrobial agents. Sustainable farming practices are becoming increasingly important. Feed acidifiers can contribute to sustainability by improving feed efficiency, reducing waste, and minimizing the environmental footprint of livestock and aquaculture production. Many feed acidifiers have regulatory approval for use in animal nutrition. Compliance with regulatory standards is essential for the livestock and aquaculture industries, ensuring that feed additives are safe and effective. Ongoing research and development efforts have led to the formulation of advanced feed acidifiers tailored to meet the specific needs of different animal species and production systems. These innovations enhance their role in increasing production. This factor will pace up the demand of the Global Feed Acidifiers Market.

Increasing Demand for Animal Protein

The global population continues to grow, leading to increased demand for food, including animal protein sources such as meat, poultry, eggs, dairy, and fish. As incomes rise and more people move to urban areas, dietary preferences tend to shift towards higher consumption of animal-based protein. Urbanization often leads to changes in dietary habits and increased demand for livestock and aquaculture products. Many consumers around the world are incorporating more animal protein into their diets as they seek higher-quality and protein-rich foods. The growth of the middle class in developing countries has resulted in increased purchasing power and a greater appetite for animal protein. As people's incomes rise, they often consume more meat and dairy. Greater awareness of the importance of protein in a balanced diet has led to increased consumption of animal protein as a source of essential nutrients. In many cultures, meat and dairy products hold cultural and traditional significance, driving the demand for livestock-based protein sources. Animal protein is rich in essential amino acids, vitamins, and minerals, making it an attractive source of nutrition for many consumers. Food manufacturers are increasingly incorporating animal protein into a wide range of processed and convenience foods, further driving demand for animal protein in various forms. The nutritional value of animal protein complements plant-based diets, making it an important component for those striving to achieve balanced nutrition. Rapid economic growth in countries such as China and India have led to increased demand for animal protein as dietary patterns shift from predominantly plant-based to more animal-based diets. To meet this growing demand for animal protein, livestock and aquaculture producers seek ways to enhance production efficiency and maximize yields. Feed acidifiers play a role in achieving these goals by improving feed conversion

rates, optimizing nutrient absorption, and promoting animal health. They help farmers and producers meet the increased demand for animal protein while maintaining cost-effective and sustainable production practices. This factor will accelerate the demand of the Global Feed Acidifiers Market.

Key Market Challenges

Consumer and Retailer Demands

Consumers and retailers increasingly prioritize food safety and quality. They expect animal-derived products to meet stringent safety standards, free from contaminants and residues. This has implications for the use of feed acidifiers, as their presence in animal products must meet regulatory limits and be clearly labeled. There is a growing demand for clean and transparent labeling in food products. Some consumers and retailers may be concerned about the presence of additives, including feed acidifiers, in animal feed. This may require manufacturers to provide clear information about the use of these additives in feed formulations. Retailers and consumers are showing greater interest in animal welfare and sustainability practices in livestock and aquaculture production. Some may question the use of feed additives, including acidifiers, and seek assurances that their use aligns with responsible and ethical farming practices. The rise of alternative protein sources, such as plant-based and cultured meat products, has introduced competition for traditional animal-based proteins. In response, the livestock industry seeks ways to enhance efficiency and address concerns about the use of additives like acidifiers. Regulatory bodies may impose stricter rules and standards related to feed additives to meet consumer and retailer demands for safety and transparency. Manufacturers of feed acidifiers must ensure compliance with these evolving regulations. Consumers and retailers often demand greater traceability and transparency in the supply chain, including the sourcing and use of feed ingredients. This may require feed manufacturers to provide detailed information about the origin and use of feed acidifiers. To meet consumer and retailer demands, feed acidifier manufacturers may need to invest in marketing and communication efforts to explain the benefits and safety of their products. This includes providing scientific evidence of their efficacy and safety.

Market Competition

With multiple players vying for market share, competition often leads to price pressure. Manufacturers may need to lower prices or offer discounts to remain competitive, potentially impacting profit margins. In a crowded market, it can be challenging to

differentiate one's feed acidifier products from those of competitors. Manufacturers need to invest in research and development to create unique formulations or value-added features that set their products apart. Maintaining high-quality standards is crucial to remain competitive. Manufacturers must ensure the consistency and efficacy of their feed acidifiers, as any quality issues can lead to loss of trust and market share. As the market becomes saturated with various feed acidifier products, finding untapped market segments or niches can become increasingly difficult. Competing on a global scale requires a significant presence and distribution network. Manufacturers may need to expand into new geographic regions to stay competitive. Building and maintaining customer loyalty can be challenging in a competitive market. Manufacturers need to provide excellent customer service and support to retain clients. Complying with evolving regulations and standards in different regions can be complex and costly. Manufacturers must stay informed about changing requirements and invest in compliance efforts. Effective marketing and branding efforts are essential to stand out in a crowded market. Manufacturers must communicate the benefits and value of their feed acidifiers to potential customers. Consolidation in the industry through mergers and acquisitions can alter the competitive landscape. Smaller players may face increased competition from larger, more diversified companies.

Key Market Trends

Rising Awareness of Food Safety

There is a growing demand for animal-derived products that meet stringent quality and safety standards. Feed acidifiers help improve feed quality by reducing the risk of spoilage, mycotoxin contamination, and the presence of harmful pathogens in animal feed. Feed acidifiers, with their ability to create an acidic environment, help control the growth of pathogenic bacteria in feed. This is crucial for minimizing the risk of foodborne illnesses associated with the consumption of animal products. Mycotoxins are toxic compounds produced by molds that can contaminate animal feed. Mycotoxin contamination is a food safety concern. Feed acidifiers are used to mitigate mycotoxin-related risks by inhibiting mold growth and mycotoxin production. Regulatory authorities in many countries have established limits and standards for the use of feed additives, including acidifiers. Compliance with these regulations is essential to ensure that animal products meet food safety requirements. Informed consumers are increasingly seeking animal products that are safe, traceable, and free from contaminants. Feed acidifiers help maintain the safety and quality of animal-derived products, contributing to consumer confidence. Retailers often have stringent requirements for the products they source, including food safety standards. Producers and suppliers of animal products

may be required to demonstrate that they have taken measures to ensure the safety of their products using feed acidifiers and other additives. Manufacturers of feed acidifiers must implement robust quality control measures to ensure the consistency and purity of their products. This is critical to meeting food safety expectations.

Segmental Insights

Sub Additive Insights

In 2022, the Global Feed Acidifiers Market was dominated by propionic acid segment in the forecast period and is predicted to continue expanding over the coming years. Propionic acid is widely recognized for its efficacy as a preservative in animal feed. It helps inhibit the growth of Mold and harmful bacteria, which can spoil feed and potentially harm livestock. By extending the shelf life of feed, propionic acid helps maintain feed quality and safety, making it a valuable additive for animal nutrition. Propionic acid is effective in controlling mycotoxins, which are toxic compounds produced by Molds that can contaminate feed. Mycotoxins can have adverse effects on animal health and performance. The ability of propionic acid to mitigate mycotoxin contamination made it a preferred choice in regions where mycotoxin contamination is a concern. As there was increasing pressure to reduce the use of antibiotics in animal feed due to concerns about antibiotic resistance, feed acidifiers like propionic acid were seen as viable alternatives. They could help maintain animal health and performance without relying on antibiotics.

Animal Insights

In 2022, the Global Feed Acidifiers Market dominated by poultry segment and is predicted to continue expanding over the coming years. Poultry meat and eggs are among the most widely consumed animal products globally. The increasing demand for affordable and high-quality sources of animal protein has driven the growth of the poultry industry. This substantial demand for poultry products has led to a corresponding demand for feed additives like acidifiers to improve poultry production efficiency. Poultry farming faces challenges related to disease outbreaks, particularly in densely populated production systems. Feed acidifiers can help maintain gut health, reduce the incidence of diseases like necrotic enteritis, and enhance the overall well-being of poultry. This is crucial for meeting consumer demands for safe and healthy poultry products. Feed acidifiers used in poultry nutrition often have established regulatory approvals and safety records, making them easier to incorporate into feed formulations while complying with regulations.

Regional Insights

The Aisa-Pacific region dominates the Global Feed Acidifiers Market in 2022. Rapid adoption of advantageous reimbursement policies that support regional growth is what fuels the market's expansion. Employers, individuals, and the government all pay to the costs associated with healthcare in the United States, which has a mix of public and private third-party coverage. To cover the cost of healthcare, individuals and employers pay premiums to private insurance companies. Government coverage is also offered to certain populations at the state and federal levels (Medicaid), as well as by the federal government (Medicare, Department of Defense, Bureau of Indian Affairs), as well as by private insurers.

Key Market Players

Adisseo Espana SA

Alltech, Inc.

BASF SE

Borregaard AS

Cargill Inc.

DSM Nutritional Products AG

Impextraco NV

Kemin Industries

SHV (Nutreco NV)

Yara International ASA

Report Scope:

In this report, the Global Feed Acidifiers Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Feed Acidifiers Market, By Sub Additive:

Fumaric Acid

Lactic Acid

Propionic Acid

Others

Feed Acidifiers Market, By Animal:

Aquaculture

Fish

Shrimp

Other Aquaculture Species

Poultry

Broiler

Layer

Other Poultry Birds

Ruminants

Beef Cattle

Dairy Cattle

Other Ruminants

Swine

Others

Global Feed Acidifiers Market, By region:

North America

United States

Canada

Mexico

Asia-Pacific

China

India

South Korea

Australia

Japan

Europe

Germany

France

United Kingdom

Spain

Italy

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Feed Acidifiers Market.

Available Customizations:

Global Feed Acidifiers Market report with the given market data, Tech Sci 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).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

4. IMPACT OF COVID-19 ON GLOBAL FEED ACIDIFIERS S MARKET

5. VOICE OF CUSTOMER

6. GLOBAL FEED ACIDIFIERS MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Sub Additive (Fumaric Acid, Lactic Acid, Propionic Acid, others)
 - 6.2.2. By Animal (Aquaculture, Poultry, Ruminants, Swine, others)

- 6.2.3. By Region
- 6.2.4. By Company (2022)
- 6.3. Market Map

7. ASIA PACIFIC FEED ACIDIFIERS MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Sub Additive
 - 7.2.2. By Animal
 - 7.2.3. By Country
- 7.3. Asia Pacific: Country Analysis
 - 7.3.1. China Feed Acidifiers Market Outlook
 - 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Value
 - 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Sub Additive
 - 7.3.1.2.2. By Animal
 - 7.3.2. India Feed Acidifiers Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value
 - 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Sub Additive
 - 7.3.2.2.2. By Animal
 - 7.3.3. Australia Feed Acidifiers Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value
 - 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Sub Additive
 - 7.3.3.2.2. By Animal
 - 7.3.4. Japan Feed Acidifiers Market Outlook
 - 7.3.4.1. Market Size & Forecast
 - 7.3.4.1.1. By Value
 - 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By Sub Additive
 - 7.3.4.2.2. By Animal
 - 7.3.5. South Korea Feed Acidifiers Market Outlook
 - 7.3.5.1. Market Size & Forecast

- 7.3.5.1.1. By Value
- 7.3.5.2. Market Share & Forecast
 - 7.3.5.2.1. By Sub Additive
 - 7.3.5.2.2. By Animal

8. EUROPE FEED ACIDIFIERS MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Sub Additive
 - 8.2.2. By Animal
 - 8.2.3. By Country
- 8.3. Europe: Country Analysis
 - 8.3.1. France Feed Acidifiers Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Sub Additive
 - 8.3.1.2.2. By Animal
 - 8.3.2. Germany Feed Acidifiers Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Sub Additive
 - 8.3.2.2.2. By Animal
 - 8.3.3. Spain Feed Acidifiers Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Sub Additive
 - 8.3.3.2.2. By Animal
 - 8.3.4. Italy Feed Acidifiers Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value
 - 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Sub Additive
 - 8.3.4.2.2. By Animal
 - 8.3.5. United Kingdom Feed Acidifiers Market Outlook

8.3.5.1. Market Size & Forecast

8.3.5.1.1. By Value

8.3.5.2. Market Share & Forecast

8.3.5.2.1. By Sub Additive

8.3.5.2.2. By Animal

9. NORTH AMERICA FEED ACIDIFIERS MARKET OUTLOOK

9.1. Market Size & Forecast

9.1.1. By Value

9.2. Market Share & Forecast

9.2.1. By Sub Additive

9.2.2. By Animal

9.2.3. By Country

9.3. North America: Country Analysis

9.3.1. United States Feed Acidifiers Market Outlook

9.3.1.1. Market Size & Forecast

9.3.1.1.1. By Value

9.3.1.2. Market Share & Forecast

9.3.1.2.1. By Sub Additive

9.3.1.2.2. By Animal

9.3.2. Mexico Feed Acidifiers Market Outlook

9.3.2.1. Market Size & Forecast

9.3.2.1.1. By Value

9.3.2.2. Market Share & Forecast

9.3.2.2.1. By Sub Additive

9.3.2.2.2. By Animal

9.3.3. Canada Feed Acidifiers Market Outlook

9.3.3.1. Market Size & Forecast

9.3.3.1.1. By Value

9.3.3.2. Market Share & Forecast

9.3.3.2.1. By Sub Additive

9.3.3.2.2. By Animal

10. SOUTH AMERICA FEED ACIDIFIERS MARKET OUTLOOK

10.1. Market Size & Forecast

10.1.1. By Value

10.2. Market Share & Forecast

- 10.2.1. By Sub Additive
- 10.2.2. By Animal
- 10.2.3. By Country
- 10.3. South America: Country Analysis
 - 10.3.1. Brazil Feed Acidifiers Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Sub Additive
 - 10.3.1.2.2. By Animal
 - 10.3.2. Argentina Feed Acidifiers Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Sub Additive
 - 10.3.2.2.2. By Animal
 - 10.3.3. Colombia Feed Acidifiers Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Sub Additive
 - 10.3.3.2.2. By Animal

11. MIDDLE EAST AND AFRICA FEED ACIDIFIERS MARKET OUTLOOK

- 11.1. Market Size & Forecast
 - 11.1.1. By Value
- 11.2. Market Share & Forecast
 - 11.2.1. By Sub Additive
 - 11.2.2. By Animal
 - 11.2.3. By Country
- 11.3. MEA: Country Analysis
 - 11.3.1. South Africa Feed Acidifiers Market Outlook
 - 11.3.1.1. Market Size & Forecast
 - 11.3.1.1.1. By Value
 - 11.3.1.2. Market Share & Forecast
 - 11.3.1.2.1. By Sub Additive
 - 11.3.1.2.2. By Animal
 - 11.3.2. Saudi Arabia Feed Acidifiers Market Outlook

- 11.3.2.1. Market Size & Forecast
 - 11.3.2.1.1. By Value
- 11.3.2.2. Market Share & Forecast
 - 11.3.2.2.1. By Sub Additive
 - 11.3.2.2.2. By Animal
- 11.3.3. UAE Feed Acidifiers Market Outlook
 - 11.3.3.1. Market Size & Forecast
 - 11.3.3.1.1. By Value
 - 11.3.3.2. Market Share & Forecast
 - 11.3.3.2.1. By Sub Additive
 - 11.3.3.2.2. By Animal

12. MARKET DYNAMICS

- 12.1. Drivers
- 12.2. Challenges

13. MARKET TRENDS & DEVELOPMENTS

- 13.1. Recent Developments
- 13.2. Product Launches
- 13.3. Mergers & Acquisitions

14. GLOBAL FEED PHYTOGENICS MARKET: SWOT ANALYSIS

15. PORTER'S FIVE FORCES ANALYSIS

- 15.1. Competition in the Industry
- 15.2. Potential of New Entrants
- 15.3. Power of Suppliers
- 15.4. Power of Customers
- 15.5. Threat of Substitute Product

16. PESTLE ANALYSIS

17. COMPETITIVE LANDSCAPE

- 17.1. Business Overview
- 17.2. Company Snapshot

- 17.3. Products & Services
- 17.4. Financials (In case of listed companies)
- 17.5. Recent Developments
- 17.6. SWOT Analysis
 - 17.6.1. Adisseo Espana SA
 - 17.6.2. Alltech, Inc.
 - 17.6.3. BASF SE
 - 17.6.4. Borregaard AS
 - 17.6.5. Cargill Inc.
 - 17.6.6. DSM Nutritional Products AG
 - 17.6.7. Impextraco NV
 - 17.6.8. Kemin Industries
 - 17.6.9. SHV (Nutreco NV)
 - 17.6.10. Yara International ASA

18. STRATEGIC RECOMMENDATIONS

19. ABOUT US & DISCLAIMER

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