

Feed Antioxidants Market- Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented By Type (Natural, Synthetic), By Livestock (Poultry, Ruminants, Swine, Aquatic Animals, Others), By Form (Dry, Liquid), By Region and Competition

<https://marketpublishers.com/r/F1173AA81E7CEN.html>

Date: October 2023

Pages: 188

Price: US\$ 4,900.00 (Single User License)

ID: F1173AA81E7CEN

Abstracts

Global Feed Antioxidants market was valued at USD 410.02 million in 2022, and is poised for remarkable growth with a CAGR Of 5.60% by 2028, owing to growing consumption of livestock-based products.

Anticipated within the forecast period, the Global Feed Antioxidants market is poised for expansion, driven by the escalating consumption of livestock-derived products due to the heightened demand for meat, dairy items, eggs, and related commodities. The incorporation of feed antioxidant additives within animal feeds stands as a pivotal measure to extend feed longevity, thwart unwarranted oxidation in finished feeds and within the digestive tracts of animals. These antioxidants serve the dual purpose of fortifying cellular integrity and curtailing singlet oxygen, thereby furnishing protection against oxidation, consequently bolstering shelf life and ensuring the safety and caliber of the feed.

Furthermore, these additives play a pivotal role in safeguarding the nutritional supplements present within the feed from deterioration, encompassing crucial components like fats, vitamins, and pigments. Consequently, the integration of feed antioxidants into animal feed not only engenders improved shelf life but also galvanizes the growth trajectory of the market within the stipulated forecast period.

Increasing Consumption and Demand of Livestock-Based Products

Livestock-derived items encompass products like meat, dairy goods, and eggs. The uptake of animal-derived products is contingent upon the fulfillment of consumers' requisites for fundamental foods, such as starchy meals and other plant-based edibles. The escalating demand for resources to facilitate the production of animal-based commodities will arise due to heightened utilization of these products, potentially vying for resources with grains intended for direct human consumption as well as other agricultural yields.

Feed antioxidants are incorporated into livestock products through diverse mediums, encompassing concentrates, premixes, and supplements. Premixes embody amalgams of feed constituents containing a predetermined assortment of vitamins, minerals, and additional nutrients, antioxidants included. Concentrates stand as markedly digestible reservoirs of energy and protein, amenable to amalgamation with other feed components for the formulation of a comprehensive diet. Supplements typically adopt the guise of pellets or powders, serving as additive entities to the feed, augmenting it with supplementary nutrients.

Rise in Compound Feed Production

Within the realm of animal agriculture, compound feed emerges as a prevalent choice, primarily due to its practicality and cost-effectiveness in catering to the dietary requisites of animals. The production of compound feed has been on a consistent rise, propelled by the escalating need for animal protein, the proliferation of livestock and poultry populations, and the embrace of contemporary animal husbandry practices. Animals remain integral contributors to the global food supply chain, thus elevating the significance of animal feeds as an integral component within this interconnected food system.

For example, as highlighted by IFIF, the United States witnessed the production of over 215.79 million metric tons of compound feed in 2020. The ability to meet the mounting demand for animal protein in the forms of eggs, milk, meat, and various other animal-derived products hinges significantly on a stable provision of fitting, cost-effective, and safe compound feeds. The surge in demand for animal products necessitates an augmented exploration of novel feed sources, resources, and substitutes.

Amidst various sectors like broilers, pigs, and the dairy industry, the amplified quest for high-quality feed fuels notable and robust expansion within these domains, consequently contributing to an augmented output of feed. In this context, the incorporation of antioxidants into animal feed by numerous feed producers assumes

prominence. These antioxidants function as additives within animal feeds, exerting their influence by elongating the shelf life of feed. By forestalling superfluous oxidation within finished feeds and animal digestive systems, antioxidants serve as pivotal components in the feed production process. This, in turn, propels the demand and utilization of antioxidants within various animal feed production circles.

Furthermore, several manufacturing enterprises are embracing novel manufacturing technologies, encompassing encapsulation and microencapsulation, to enhance the stability and bioavailability of feed antioxidants. Encapsulation involves enclosing the feed antioxidant within a protective outer layer, mitigating oxidation and degradation. Conversely, microencapsulation entails the reduction of feed antioxidant particle sizes, thereby augmenting their absorption and efficacy. These technologies also confer the benefit of elongating the shelf life of feed antioxidant products while concurrently minimizing their ecological footprint.

Additionally, the utilization of feed antioxidants in the realm of aquaculture is on the rise, propelled by the burgeoning demand for premium-quality seafood and the amplified emphasis on sustainable aquaculture methodologies. The incorporation of feeding antioxidants exerts a positive impact on the growth, survival, and well-being of aquatic organisms. It curbs disease susceptibility, prolongs the shelf life of seafood products, and contributes to an overall enhancement of aquacultural practices. Prominent companies like BASF and DSM are dedicating resources to research and development initiatives, steering the creation of feed antioxidant solutions tailored for the aquaculture sector.

For instance, Kemin produced a highly efficient antioxidant product by name of Paradigmox which are suitable for all aquaculture feed applications.

Therefore, the increasing production of compound feed is due to the growing demand for animal protein and food, which is expected to drive the growth of the market during the forecast period.

Natural will be the Key Type

The surging consumer preference for natural feed antioxidants, including plant extracts and essential oils, parallels the increasing demand for natural and organic animal products. Recognized for their safety and sustainability, natural feed antioxidants stand as viable alternatives to synthetic counterparts, which can entail potential health and environmental hazards. Employing natural feed antioxidants not only aligns with animal

welfare and environmental considerations but also contributes to enhanced animal health, superior meat quality, and prolonged shelf life of animal-derived goods.

Additionally, the inclusion of carotenoids, intrinsic antioxidants endowed with pigmenting properties, assumes significance within poultry farming and aquaculture. These compounds play a pivotal role in augmenting the coloration of egg yolk, chicken skin, and fish flesh. A notable illustration is DSM's creation of carotenoid solutions, pivotal in bolstering animal health and reproduction.

Moreover, research institutions in Turkey are harnessing the potential of *Pinus brutia*, commonly known as Turkish Red Pine, as a natural antioxidant source in broiler diets. This incorporation enhances the antioxidant capacity of the broilers without compromising their performance metrics.

On a parallel note, synthetic feed antioxidants are often formulated as well-defined compounds, exhibiting consistent composition, and employed in precise amalgamations with other pure substances. These synthetic alternatives offer notable stability, accessibility, prolonged shelf life, and cost-efficiency. Kemin, for instance, produces synthetic feed antioxidants that adeptly manage oxidation across all phases of pet food manufacturing and rendering processes.

Collectively, these facets contribute to the burgeoning demand within the global Feed Antioxidants market throughout the projected forecast period.

Nevertheless, the presence of viable substitutes offering comparable advantages to animal health and welfare necessitates consideration. Some entities are formulating feed additives designed to bolster gut health in animals, while others are directing their efforts toward the creation of natural feed components like herbs and spices, renowned for their antioxidant and anti-inflammatory attributes. Concurrently, the use of synthetic antioxidants harbors inherent health and environmental concerns, as their presence can trigger contamination and detriment to aquatic and terrestrial ecosystems. This dynamic poses a restraint to the market's expansion.

Moreover, the procurement of raw materials integral to feed antioxidant production, encompassing vitamins, minerals, and plant extracts, is susceptible to price volatility and availability discrepancies due to oscillations in raw material costs. The resultant fluctuations can reverberate across production expenses and product pricing, engendering a deceleration in the pace of market growth.

Market Segmentation

Global Feed Antioxidants market is segmented based on type, livestock, form, and region. Based on type, the market is further bifurcated into natural and synthetic. Based on livestock, the market is further fragmented into poultry, ruminants, swine, aquatic animals, and others. Based on form, the market is further split into dry and liquid. Based on region, the market is divided into North America, Europe, Asia Pacific, South America, Middle East & Africa.

Company Profiles

Koninklijke DSM N.V., BASF SE, Cargill, Incorporated., Alltech Inc., Oxiris Chemicals, SA, Btsa Biotecnologias Aplicadas SL, Kaesler Nutrition GmbH, LALLEMAND Inc, VDH Chem Tech Pvt. Ltd., Simfa Labs Pvt. Ltd. are some of the key players in the Global Feed Antioxidants Market.

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Report Scope:

In this report, global Feed Antioxidants market has been segmented into the following categories, in addition to the industry trends, which have also been detailed below:

Feed Antioxidants Market, By Ingredient Type:

Natural

Synthetic

Feed Antioxidants Market, By Livestock:

Poultry

Ruminants

Swine

Aquatic Animals

Others

Feed Antioxidants Market, By Form:

Dry

Liquid

Feed Antioxidants Market, By Region:

North America

United States

Mexico

Canada

Europe

France

Germany

United Kingdom

Spain

Italy

Asia-Pacific

China

India

South Korea

Japan

Singapore

South America

Brazil

Argentina

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive landscape

Company Profiles: Detailed analysis of the major companies in the global Feed Antioxidants market.

Available Customizations:

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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