

Lutein Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028F Segmented By Form (Powder and Crystalline, Oil Suspension, Beadlets, Emulsion), By Source (Natural, Synthetic), By Application (Food, Beverages, Dietary Supplements, Animal Feed, Pharmaceuticals, and Personal Care Products), By Production Process (Chemical Synthesis, Extraction from Botanical Material, Fermentation, Algae Route), By Region, Competition

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Abstracts

The global lutein market was valued at USD 328.10 million in 2022 and is projected to experience robust growth in the forecast period, with a CAGR of 5.5% through 2028. Lutein, a prominent carotenoid, is well-known for its association with vitamin A. It acts as a yellow pigment and has been extensively studied for its ability to promote eye health and reduce the risk of macular degeneration and cataracts. As a result of these beneficial properties, lutein consumption has increased across various sectors including food products, supplements, cosmetics, and animal feed. Common sources of lutein include egg yolks, broccoli, spinach, kale, maize, orange pepper, kiwi fruit, grapes, zucchini, orange juice, and squash. With changing lifestyles and the growing susceptibility to age-related macular degeneration and cataracts, the demand for lutein is expected to surge.

Key Market Drivers:

Increasing demand for lutein in the cosmetic industry

Growing demand for dietary supplements

Prevalence of age-related macular degeneration (AMD)

The growth of the lutein market can be attributed to the rising awareness of the benefits of organic nutraceuticals and the shift towards preventive therapies. During the COVID-19 pandemic, there was a significant increase in the adoption of nutraceuticals and dietary supplements as people sought preventive measures. This trend also led to a higher demand for lutein as a preventive measure for eye disorders. The global sales of lutein products have been positively influenced by the rise in nutraceutical sales. According to data published by the National Center for Biotechnology Information (NCBI), dietary supplement sales in the U.S. increased by 5% in 2019 compared to 2018. This shift towards preventive therapies and the increased adoption of nutraceuticals have contributed to the global growth of the lutein market.

Rising Cases of Skin Cancer

The rise in skin cancer cases attributed to UV radiation has resulted in an increased demand for skin care products containing lutein. Furthermore, lutein offers protection against the oxidative and DNA-damaging effects of blue light. It is anticipated that heightened absorption of blue light by the skin will stimulate melanin production, resulting in skin tanning, aging, and the risk of skin cancer. Interestingly, individuals who consume lutein experience a significant lightening of their skin tone and an overall improvement in skin complexion, indicating a subsequent reduction in melanin production. As a result, the application of lutein contributes to the growth of the market.

Wide Range of Application in Pharmaceutical Industry

Lutein is widely used in the formulation of eye health supplements and nutraceuticals. These supplements are taken to support and promote eye health, especially for individuals at risk of or suffering from AMD or other vision-related conditions. Lutein's antioxidant properties are believed to be beneficial for preventing and managing cataracts, a common age-related eye condition. Pharmaceutical companies may investigate the use of lutein in cataract treatments or as a preventative measure in eye health formulations.

The pharmaceutical industry has been exploring lutein's potential in the development of

therapies for AMD. Research suggests that lutein supplementation may help slow the progression of AMD and reduce the risk of advanced AMD in individuals with early signs of the disease. The demand for lutein in the pharmaceutical and nutraceutical industries is increasing due to the aging population and the growing incidence of eye conditions such as AMD and cataracts. The rising consumer awareness of preventive healthcare and the significance of eye health are driving the demand for lutein supplements to maintain optimal vision.

Potential Use as A Natural Food Coloring Component

Lutein has shown good stability in various food processing conditions, making it suitable for use in a wide range of food applications. It can withstand heat, light, and pH changes, maintaining its color during processing and storage. Lutein's natural yellow to orange color can be utilized to add bright and appealing hues to food products. It is commonly used in products such as sauces, beverages, dairy products, confectionery, and baked goods to impart a natural yellow or orange color. The utilization of lutein as a natural food coloring component in the food and beverage industry is propelling market growth. With its inherent and reliable coloring properties, lutein finds extensive application in various food and beverage sectors, including dairy products, beverages, baked goods, and confectionery. The increasing consumer demand for clean label and natural food products is a key driver for the rising demand of lutein in the food and beverage industry.

Key Market Challenges

Side Effects Associated with Lutein

One of the primary market limitations is the adverse effects associated with consuming high doses of lutein. Adhering to recommended dosage guidelines is crucial, and it is advisable to seek guidance from healthcare professionals before considering high-dose supplementation. Excessive lutein consumption can potentially lead to gastrointestinal disorders, heightened oxidative stress, and in some cases, allergic reactions. These factors significantly impede the market's growth trajectory.

Furthermore, the limited awareness and knowledge surrounding lutein-based products and their benefits pose an additional constraint on the expansion of the lutein market. Particularly, the populace's lack of education regarding the role of lutein in promoting eye health hinders widespread consumption of lutein-rich food products. This, in turn, restricts the overall market demand.

Limited Consumer Awareness

Despite the potential health benefits of lutein, consumer awareness of this carotenoid and its applications may still be relatively low. Educating consumers about the benefits of lutein and its sources could be a challenge for companies looking to promote lutein-infused products. The price of lutein can be subject to fluctuations due to factors such as supply chain dynamics, agricultural conditions, and production costs. Price volatility may impact the profitability of companies that rely heavily on lutein as an ingredient.

Lutein is primarily extracted from marigold flowers or synthesized from petrochemicals. Ensuring a stable and reliable supply of high-quality lutein could be challenging, particularly during times of supply chain disruptions or fluctuations in raw material availability. However, there are certain challenges that may hinder the market's growth for lutein. Regulatory factors, volatile prices of raw materials, and limited availability of lutein-rich sources can all pose obstacles to market expansion. Additionally, the presence of more affordable alternatives and the need for extensive research and development in new lutein applications may also present difficulties for industry stakeholders.

Key Market Trends

Growing Preference of Organic products

The growing demand for natural supplements presents a significant market opportunity. As consumers increasingly prioritize their health, there is a preference for organic products. Consequently, there is a rising demand for lutein in the food and beverage as well as dietary supplement industries due to its natural antioxidant properties as a pigment. The benefits of organic supplements, such as lutein, in promoting eye health and overall well-being have propelled market demand.

Furthermore, the emerging nutraceutical industry offers a promising avenue for market growth. This industry focuses on products that combine nutritional and pharmaceutical properties, with lutein being a beneficial ingredient in such products. The advantages of lutein in supporting eye and skin health make it a suitable component for nutraceutical formulations, thereby driving demand in the lutein market.

Growing Investment in R&D

With consumers increasingly seeking natural and clean-label products, the demand for natural food colorants and antioxidants like lutein has risen. As a naturally occurring carotenoid, lutein fits well into the growing market for natural ingredients, prompting investments in its production and incorporation into various food and beverage products. Ongoing research and innovation in lutein extraction, purification, and formulation have improved its availability and efficacy. Advancements in technology and production processes may lead to increased investments in lutein-related research and development.

The growing investments in research and development present substantial growth prospects for the market. Ongoing research to unveil the health benefits of lutein, such as in brain health and cardiovascular health, is creating new opportunities, contributing to the expansion of the market.

Segmental Insights

Application Insights

The lutein market is segmented into various sectors, including food, beverages, dietary supplements, animal feed, pharmaceuticals, and personal care products. The demand for lutein in the pharmaceutical sector is expected to experience significant growth in the coming years. Lutein extracts are widely utilized for the treatment of age-related macular degeneration (AMD), the most prevalent cause of blindness among adults. The industry is projected to witness growth driven by the increasing incidence of other eye diseases such as cataracts, glaucoma, and diabetic retinopathy over the forecast period.

Form Type Insights

Based on different forms, the market is categorized powder and crystalline, oil suspension, Beadlets, and emulsion. The Beadlets segment is projected to experience significant growth due to the advancement of innovative compounding processes and microencapsulated techniques, which enhance the stability, solubility, and bioavailability of lutein. Additionally, the emulsion segment is expected to exhibit rapid growth during the forecast period, as it demonstrates physical stability across all incubation temperatures.

Regional Insights

North America dominates the market, with the United States being the key contributor. Given the substantial population of vision-impaired individuals in the United States, there is a high demand for lutein supplements in this country. According to the American Academy of Ophthalmology, cataracts affect over 24.4 million Americans aged 40 and above each year. By the age of 75, approximately half of all Americans develop cataracts. Furthermore, nearly 2.1 million Americans aged 50 and above suffer from late AMD, which can result in severe vision impairment. Consequently, various optometrists in America have recommended lutein supplements due to the escalating cases of vision impairment.

Key Market Players

Kemin Industries

BASF SE

Dupont Nutrition & Health

Allied Biotech Corporation

Archer Daniels Midland Company

Nature's Bounty Co.

Evonik Industries

Chr. Hansen Holding A/S

Pioneer Food Solutions

Valensa International

Report Scope:

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

Lutein Market, By Form:

Powder and Crystalline

Oil Suspension

Beadlets

Emulsion

Lutein Market, By Source:

Natural

Synthetic

Lutein Market, By Application:

Food

o Beverages

Dietary Supplements

Animal Feed

Pharmaceuticals

Personal Care Products

Lutein Market, By Production Process:

Chemical Synthesis

Extraction from Botanical Material

Fermentation

Algae Route

Lutein Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

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 Lutein Market.

Available Customizations:

Global Lutein 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).

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