

Plant-Derived Joint Health Ingredients Market Forecasts to 2034 – Global Analysis By Source (Turmeric, Boswellia, Ginger, Devil's Claw, Avocado & Soy Unsaponifiables (ASU) and CBD Hemp Extract), Form, Technology, Application, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Plant-Derived Joint Health Ingredients Market is accounted for \$3.8 billion in 2026 and is expected to reach \$8.5 billion by 2034 growing at a CAGR of 10.5% during the forecast period. Plant-derived joint health ingredients refer to bioactive compounds extracted from botanicals such as turmeric, boswellia, and ginger, which are formulated into dietary supplements and functional foods to support joint mobility and reduce inflammation. These ingredients contain active phytochemicals like curcumin, boswellic acids, and gingerols that modulate inflammatory pathways and protect cartilage from degradation. They are increasingly incorporated into nutraceutical products targeting aging populations and active individuals seeking natural alternatives for joint care.

Market Dynamics:

Driver:

Aging Population and Osteoarthritis Prevalence

The expanding global geriatric population and the increasing prevalence of osteoarthritis are driving demand for natural, plant-based ingredients that can alleviate joint pain and improve mobility. Consumers are actively seeking safer alternatives to

non-steroidal anti-inflammatory drugs due to concerns about long-term side effects. This shift towards preventive healthcare and the growing body of clinical evidence supporting the efficacy of botanical extracts are accelerating adoption across the nutraceutical industry, thereby fueling market growth.

Restraint:

Ingredient Bioavailability Challenges

Poor oral bioavailability of many plant-derived active compounds, particularly curcumin and boswellic acids, limits their therapeutic efficacy and presents a significant formulation challenge for manufacturers. The need for advanced delivery systems like phytosomes, liposomes, and nanoparticle encapsulation adds to production costs and complexity. Inconsistent quality and potency of botanical extracts due to variations in sourcing, cultivation, and processing methods further hinder market expansion and consumer trust.

Opportunity:

Integration into Functional Foods and Beverages

The growing trend of incorporating joint health ingredients into everyday food and beverage products presents a significant opportunity to expand consumer reach beyond traditional supplement formats. Fortification of snacks, protein bars, and ready-to-drink beverages with plant-derived ingredients offers convenient delivery options for younger, active demographics. The development of clean-label formulations that mask the bitter taste of botanicals is enabling broader product innovation, which in turn drives market penetration in mainstream retail channels.

Threat:

Regulatory Scrutiny and Health Claim Limitations

Stringent regulatory frameworks governing health claims for dietary supplements and functional foods pose a significant threat, as unsubstantiated claims can lead to enforcement actions and loss of consumer confidence. The complex and costly process of obtaining regulatory approval for new botanical ingredients or structure-function claims can delay product launches. Additionally, competition from synthetic or animal-derived alternatives offering similar benefits at lower costs presents a persistent pricing

challenge for plant-based ingredient suppliers.

Covid-19 Impact:

The pandemic initially disrupted botanical supply chains and raw material sourcing due to international lockdowns and logistical constraints. During the mid-pandemic period, heightened consumer focus on immune health and preventive wellness increased interest in natural anti-inflammatory supplements. Post-pandemic, the market has sustained growth as consumers prioritize holistic health, with e-commerce becoming a permanently expanded channel for distribution.

The turmeric segment is expected to be the largest during the forecast period

The turmeric segment is expected to account for the largest market share during the forecast period, due to its extensive research backing and widespread consumer recognition for its potent anti-inflammatory and antioxidant properties, particularly its active compound curcumin. This ingredient benefits from a long history of use in traditional medicine and strong brand recognition across global markets. Continuous innovation in bioavailability enhancement and the ingredient's versatility across various formulations further reinforces its dominance in the joint health ingredient market.

The gummies segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the gummies segment is predicted to witness the highest growth rate, driven by growing consumer preference for convenient, enjoyable, and easy-to-consume supplement formats that improve adherence among both adult and younger populations. The gummy format masks the unpleasant taste of many botanical extracts while offering precise dosing and portability. The rapid expansion of functional confectionery and increased marketing to health-conscious consumers are in turn accelerating the adoption of gummies as a preferred delivery vehicle for joint health ingredients.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share, due to the high prevalence of osteoarthritis, strong consumer awareness of dietary supplements, and a well-established nutraceutical industry in the United States. Major ingredient suppliers like ADM and dsm-firmenich have a strong regional

presence, while continuous product innovation and marketing efforts further reinforce market leadership.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, due to the large aging population, increasing disposable incomes, and deep-rooted cultural acceptance of herbal and traditional medicines in countries like China, India, and Japan. The growing middle class and rising healthcare awareness are driving demand for preventive joint health products, while government initiatives to promote traditional medicine further accelerate market growth.

Key players in the market

Some of the key players in Plant-Derived Joint Health Ingredients Market include Ginkgo BioWorks, Arjuna Natural, Sabinsa Corporation, Ingredion Incorporated, Kerry Group, ADM, dsm-firmenich, Naturex (Givaudan), Euromed S.A., PLT Health Solutions, Indena S.p.A., Nutra Green Biotechnology, Synthite Industries, Organic India, Himalaya Wellness, Botanic Healthcare and NXT USA.

Key Developments:

In July 2026, ADM partnered with a biotechnology firm to develop a highly bioavailable curcumin ingredient, enhancing absorption and supporting advanced formulations for joint health and mobility applications.

In June 2026, Sabinsa Corporation launched a standardized boswellia extract with enhanced AKBA content, delivering superior joint support for premium sports nutrition and joint care supplement formulations.

In May 2026, dsm-firmenich expanded its botanical ingredient portfolio with a clinically validated ginger extract, helping reduce exercise-induced joint discomfort and inflammation while supporting active lifestyle nutrition products.

Sources Covered:

Turmeric

Boswellia

Ginger

Devil's Claw

Avocado & Soy Unsaponifiables (ASU)

CBD Hemp Extract

Forms Covered:

Powder

Capsules

Tablets

Liquid Extracts

Softgels

Gummies

Technologies Covered:

Botanical Extraction

Supercritical CO₂ Extraction

Fermentation

Microencapsulation

Standardized Herbal Processing

Freeze Drying

Applications Covered:

Dietary Supplements

Functional Foods

Functional Beverages

Medical Nutrition

Sports Nutrition

Pharmaceutical Preparations

End Users Covered:

Nutraceutical Manufacturers

Pharmaceutical Companies

Food & Beverage Companies

Sports Nutrition Brands

Healthcare Institutions

Online Retailers

Regions Covered:

North America

United States

Canada

Mexico

Europe

United Kingdom

Germany

France

Italy

Spain

Netherlands

Belgium

Sweden

Switzerland

Poland

Rest of Europe

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Thailand

Malaysia

Singapore

Vietnam

Rest of Asia Pacific

South America

Brazil

Argentina

Colombia

Chile

Peru

Rest of South America

Rest of the World (RoW)

Middle East

Saudi Arabia

United Arab Emirates

Qatar

Israel

Rest of Middle East

Africa

South Africa

Egypt

Morocco

Rest of Africa

What our report offers:

Market share assessments for the regional and country-level segments

Strategic recommendations for the new entrants

Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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